

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 OCT 23 2007 Bureau of Land Management Farmington Field Office	5. Lease Number NHSP-078566-A Unit Reporting Number
1b. Type of Well GAS		6. If Indian, All. or Tribe RCVD NOV 27 '07
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP		7. Unit Agreement Name OIL CONS. DIV. DIST. 3
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700		8. Farm or Lease Name Howell 9. Well Number 12
4. Location of Well Unit I (NESE), 1760' FSL & 770' FWL Surf: Latitude 36.61590 N Longitude 107.66195 W		10. Field, Pool, Wildcat Basin Fruitland Coal/ 50. Blanco Pictured Cliffs 11. Sec., Twn, Rge, Mer. (NMPM) I Sec. 34, T28N, R8W API # 30-045-34476
14. Distance in Miles from Nearest Town 13 Miles/Blanco	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 745'		
16. Acres in Lease 1266.8 1261.04	17. Acres Assigned to Well FC. 301.04 (S/2) PC. 151.44 (SE/2)	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 80' Howell 3A		
19. Proposed Depth 2821'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6270' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: Jamie Goodwin Jamie Goodwin (Regulatory Technician)	10/22/07 Date	

PERMIT NO.

APPROVAL DATE

APPROVED BY **[Signature]**

TITLE **AFM**

DATE **11/26/07**

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 2

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

NMOCD NOV 28 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 the Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

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

RECEIVED

OCT 23 2007

Bureau of Land Management
Farmington Field Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-34470	*Pool Code 71629 / 72439	*Pool Name BASIN FRUITLAND COAL / So. BLANCO PICTURED CLIFFS
*Property Code 7118	*Property Name HOWELL	*Well Number 12
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY, LP	*Elevation 6270'

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
I	34	28N	8W		1760	SOUTH	770	EAST	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
I									
¹² Dedicated Acres 301.44 Acres (S/2) - FC 151.44 Acres (SE/4) - PC					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	2640.00'	34	1070'	745'	770'	1760'	1193.94'	1320.00'	1133.22'	LEASE SF-078566-A	LOT 1	LOT 2	LOT 3	LOT 4	LAT: 36°36.9534' N LONG: 107°39.6801' W DATUM: NAD27 LAT: 36°61.590' N LONG: 107°66.195' W DATUM: NAD83	5280.00'	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 <u>Rhonda Rogers</u> Date <u>9-13-07</u> Printed Name <u>Rhonda Rogers</u>
																	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 Survey Date: AUGUST 15, 2007 Signature and Seal of Professional Surveyor  <u>JASON C. EDWARDS</u> Certificate Number 15269

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- 34476

5. Indicate Type of Lease

STATE ☐FEE ☐

6. State Oil & Gas Lease No.

Federal Lease #NMSF078566

7. Lease Name or Unit Agreement Name

Howell

8. Well Number

#12

9. OGRID Number

14538

10. Pool name or Wildcat

Basin Fruitland Coal/Blanco Pictured Cliffs

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 1 : 1760' feet from the South line and 770' feet from the East line
Section 34 Township 28N Rng 8W NMPM County San Juan

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

6270'

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

>2000

<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

Jamie Goodwin

TITLE

Regulatory Technician

DATE 10/11/2007

Type or print name

Jamie Goodwin

E-mail address:

goodwil@conocophillips.com

Telephone No.

505-326-9784

For State Use Only

APPROVED BY

TITLE

Deputy Oil & Gas Inspector,
District #3

DATE

NOV 28 2007

Conditions of Approval (if any)

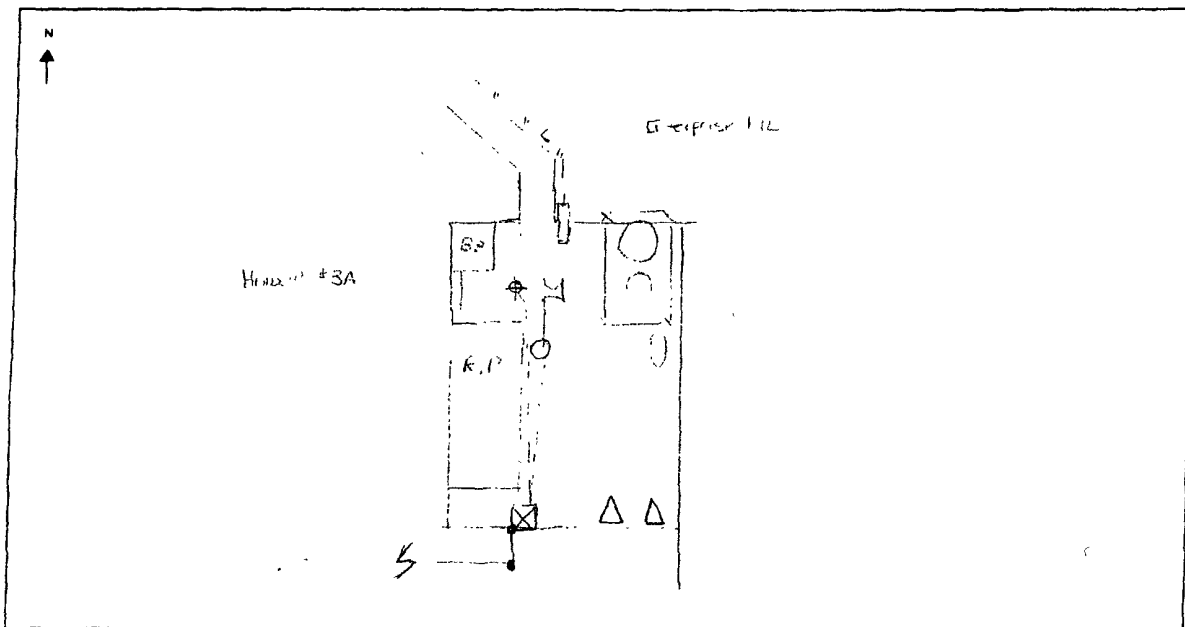


TECHNICAL SERVICES
A CORROSION COMPANY

CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME Howell #12 LEGALS I-34-28-8 COUNTY San Juan

PURPOSED C.P. SYSTEM: Drill GB on SE corner of location and tie into existing CP system. Trench approx 150' of #8 neg cable from proposed well to rectifier.



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

COMMENTS: 8.64v / 5.2a 2 pr. ca. wire = 1.7 ohm GB

NEAREST POWER SOURCE Existing Rect. Howell #3A DISTANCE: same location
PIPELINES IN AREA: Enterprise P/L

TECHNICIAN: Alfred J. Hines DATE: 9/12/07

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

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

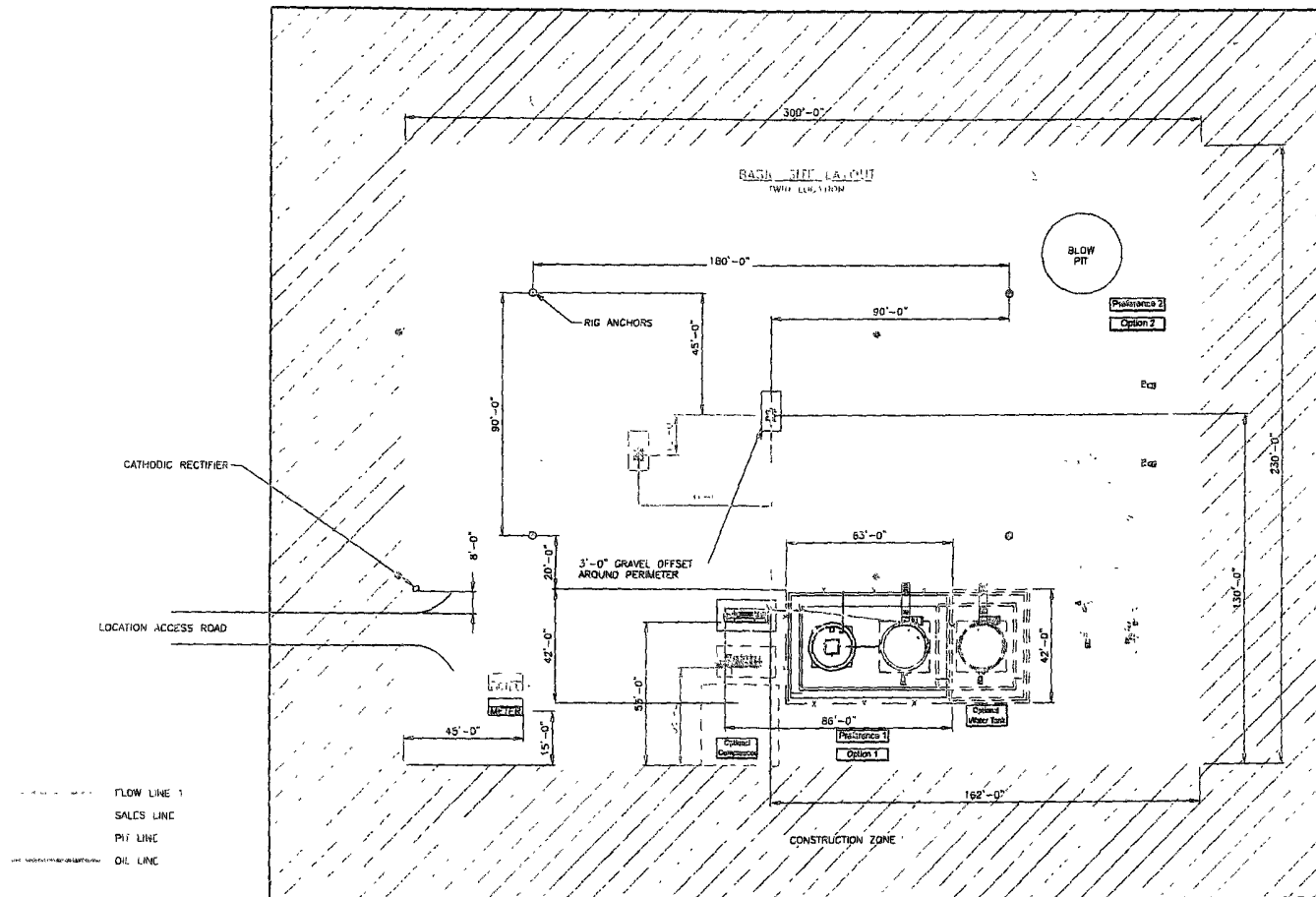
HOWELL 12

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7231				AFE \$:	
Field Name: hBR_SAN JUAN		Rig: Aztec Rig 580		State: NM	County: SAN JUAN		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist: Clark, Dave D		Phone: 505-326-9762		Prod. Engineer:		Phone:	
Res. Engineer:		Phone:		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
JCV	BASIN FRUITLAND COAL (GAS)						
UPL	BLANCO PICTURED CLIFFS						
Location: Surface		Datum Code: NAD 27				Straight Hole	
Latitude: 36.615892	Longitude: -107.661339	X:	Y:	Section: 34		Range: 008W	
Footage X: 770 FEL		Footage Y: 1760 FSL		Elevation: 6270 (FT)	Township: 028N		
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2008		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6282 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	120	6162	<input type="checkbox"/>			8-3/4 hole. 7" 20 ppf, J-55 STC csg. Cement with 50 cuft. Circulate cement to surface.	
OJO ALAMO	1705	4577	<input type="checkbox"/>				
KIRTLAND	1835	4447	<input type="checkbox"/>				
FRUITLAND	2346	3936	<input type="checkbox"/>			Gas	
PICTURED CLIFFS	2621	3661	<input type="checkbox"/>	400		Gas	
Total Depth	2821	3461	<input type="checkbox"/>			6-1/4" hole. 4-1/2" 10.5 ppf, J-55, STC casing. Cement with 433 cuft. Circulate cement to surface.	
Reference Wells:							
Reference Type	Well Name		Comments				
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 - FCNM028N008W34SE1 PCNM028N008W34SE1 Twin Howell 3A (MV), else I,P,O,J, topo will be a problem if can't get 1st or 2nd preference.

Zones - FCNM028N008W34SE1 PCNM028N008W34SE1



SHEET 1 OF 5

SEE SHEET 2 OF 5 FOR PHASE DETAILS
ALL UNDERGROUND PIPING IS TO BE BURIED A MIN OF 3'-0" TOP

										ENGINEERING REVIEW			REFERENCE DRAWINGS		CONOCOPHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT		
										PROJECT	REVIEWED	DATE	SHEET	DESCRIPTION	ConocoPhillips		
										TECHNICAL							
										PROCESS							
										ELECTRICAL							
										PLUMBING							
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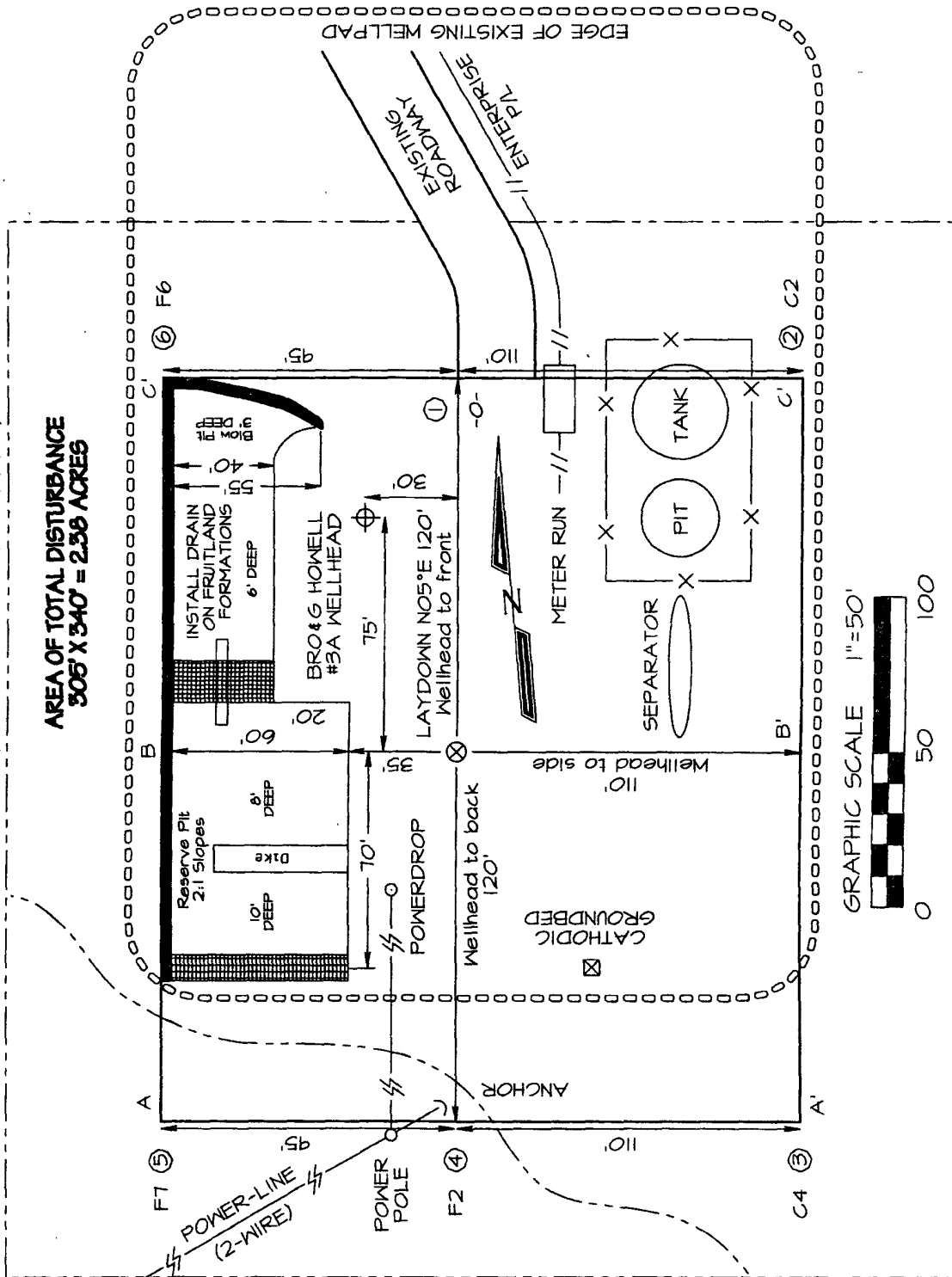
BURLINGTON RESOURCES OIL & GAS COMPANY HOWELL #12 **1760' FSL & 770' FEL, SECTION 34, T28N, R8W, NMPM** **SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6270'**

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

AREA OF TOTAL DISTURBANCE
305' X 340' = 2.36 ACRES

LATITUDE: 36°36.9534'N
 LONGITUDE: 107°39.6801'W
 DATUM: NAD1927

~ SURFACE OWNER ~
 Bureau of Land Management



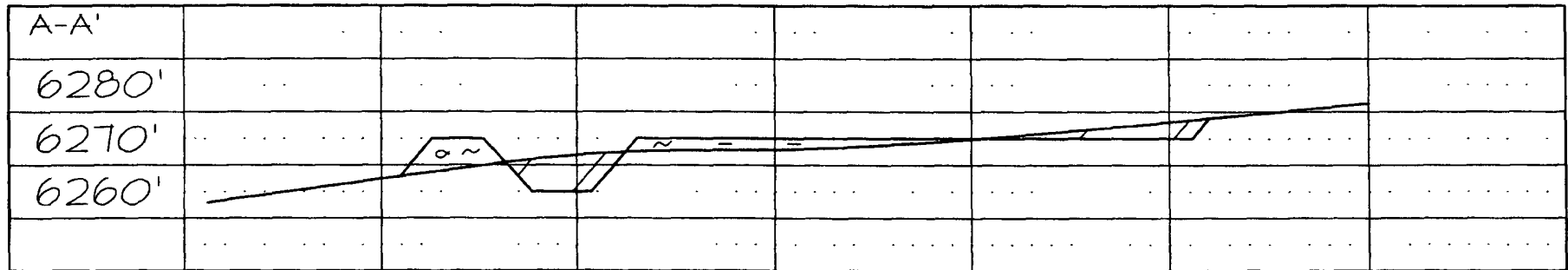
EDGE OF TOTAL DISTURBANCE (MARKED WITH STEEL T-POSTS)

BURLINGTON RESOURCES OIL & GAS COMPANY HOWELL #12
1760' FSL & 770' FEL, SECTION 34, T28N, R8W, NMPM
SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6270'

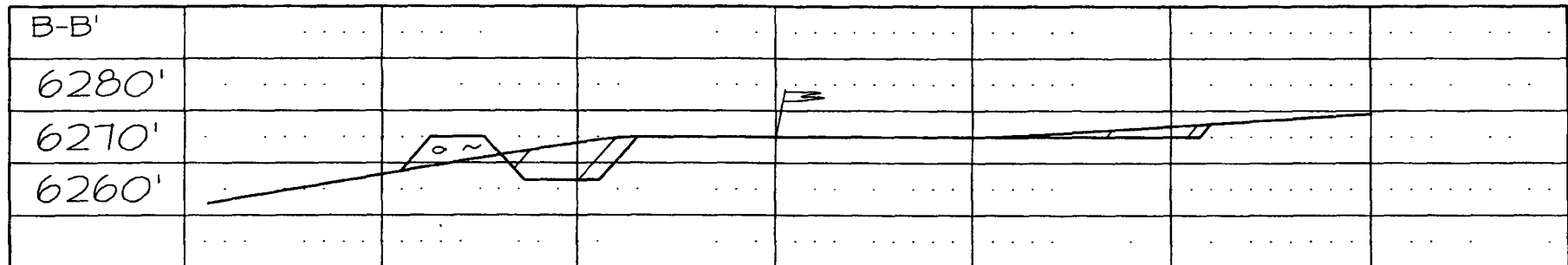
HORIZONTAL SCALE 1"=40'

C/L

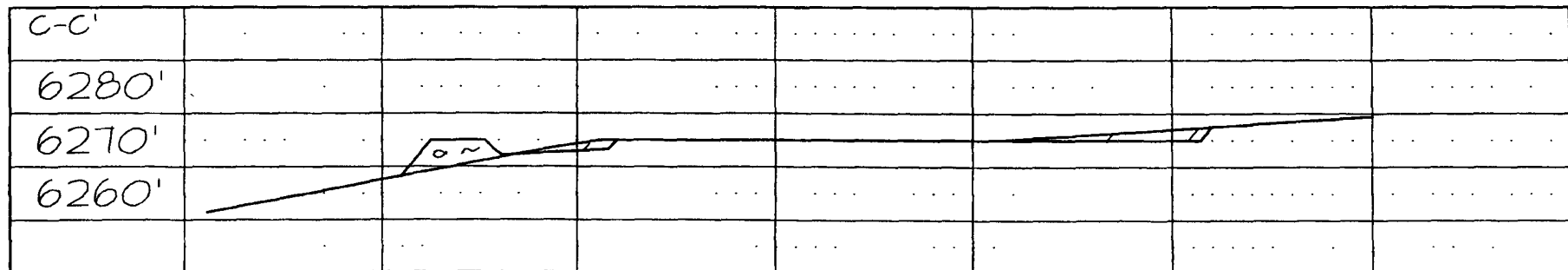
VERTICAL SCALE 1"=30'



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.