

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	RECEIVED MAR 17 2008 Bureau of Land Management Farmington Field Office	5. Lease Number USA SF-078081 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 Sanchez 9. Well Number #177
4. Location of Well Surf: Unit H(SENZ), 1800' FNL & 765' FEL Surf: Latitude 36.548541° N Longitude 107.787465° W		10. Field, Pool, Wildcat Basin Fruitland Coal 11. Sec., Twn, Rge, Mer. (NMPM) i Sec. 28, T27N, R9W API # 30-045-34651
14. Distance in Miles from Nearest Town 28 miles/Bloomfield	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 765'		
16. Acres in Lease 1,280.00	17. Acres Assigned to Well 320.00 (E/2)	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 52' from Huerfanito #83 - DK		
19. Proposed Depth 2471'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6411' GR	22. Approx. Date Work will Start	
This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4		DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Crystal Walker</u> Crystal Walker (Regulatory Technician)	<u>3/17/08</u> 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 2

Bond Numbers NMB-000015 and NMB-000089

NOTIFY AZTEC OGD 24 HRS.
PRIOR TO CASING & CEMENT

NMB-000015

APR 14 2008

AV

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 - 7 Copies

Fee Lease - 3 Copies

RECEIVED

MAR 17 2008

Bureau of Land Management
Santa Fe Field Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045- 34651	² Pool Code 71629	³ Pool Name BASIN FRUITLAND COAL
⁴ Property Code 7138	⁵ Property Name HUERFANITO UNIT	⁶ Well Number 177
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP	⁹ Elevation 6411

¹⁰ SURFACE LOCATION

UL or lot no. H	Section 28	Township 27-N	Range 9-W	Lot Idn	Feet from the 1800	North/South line NORTH	Feet from the 765	East/West line EAST	County SAN JUAN
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. H	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres 320.00	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

¹⁶ S 88°23'55" W S 88°23' W 	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>Crystal Walker</i> 3/14/08 Signature Crystal Walker Printed Name Regulatory Technician Title and E-mail Address 3-14-08 Date	
	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: 10/17/07 Signature and Seal of Professional Surveyor: 	
	Certificate Number: NM 11393	

Submit 3 Copies To Appropriate District
Office
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

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- <u>34651</u>
5. Indicate Type of Lease STATE ☐ FEE ☐
6. State Oil & Gas Lease No. SF-078135
7. Lease Name or Unit Agreement Name Huerfanito Unit
8. Well Number #177
9. OGRID Number 14538
10. Pool name or Wildcat Basin Fruitland Coal

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 : 1800 feet from the North line and 765 feet from the East line
Section 28 Township 27N Rng 9W NMPM County San Juan

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
6411' GR

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 4200'

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 ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

OTHER: New Drill Pit ☒

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 ☐.

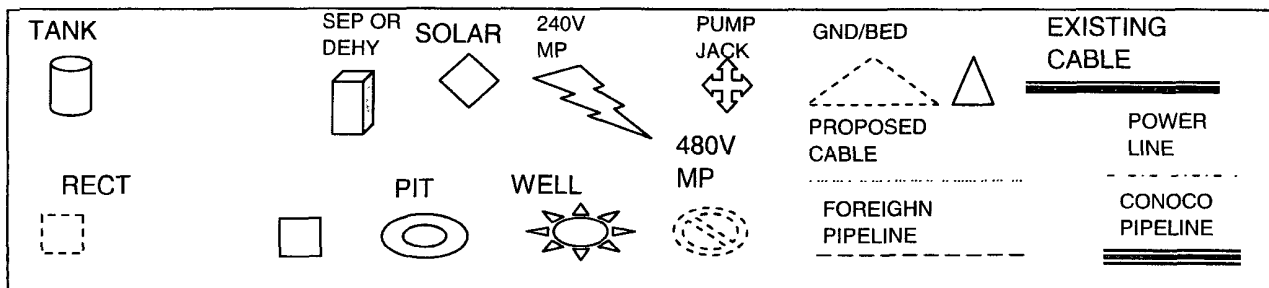
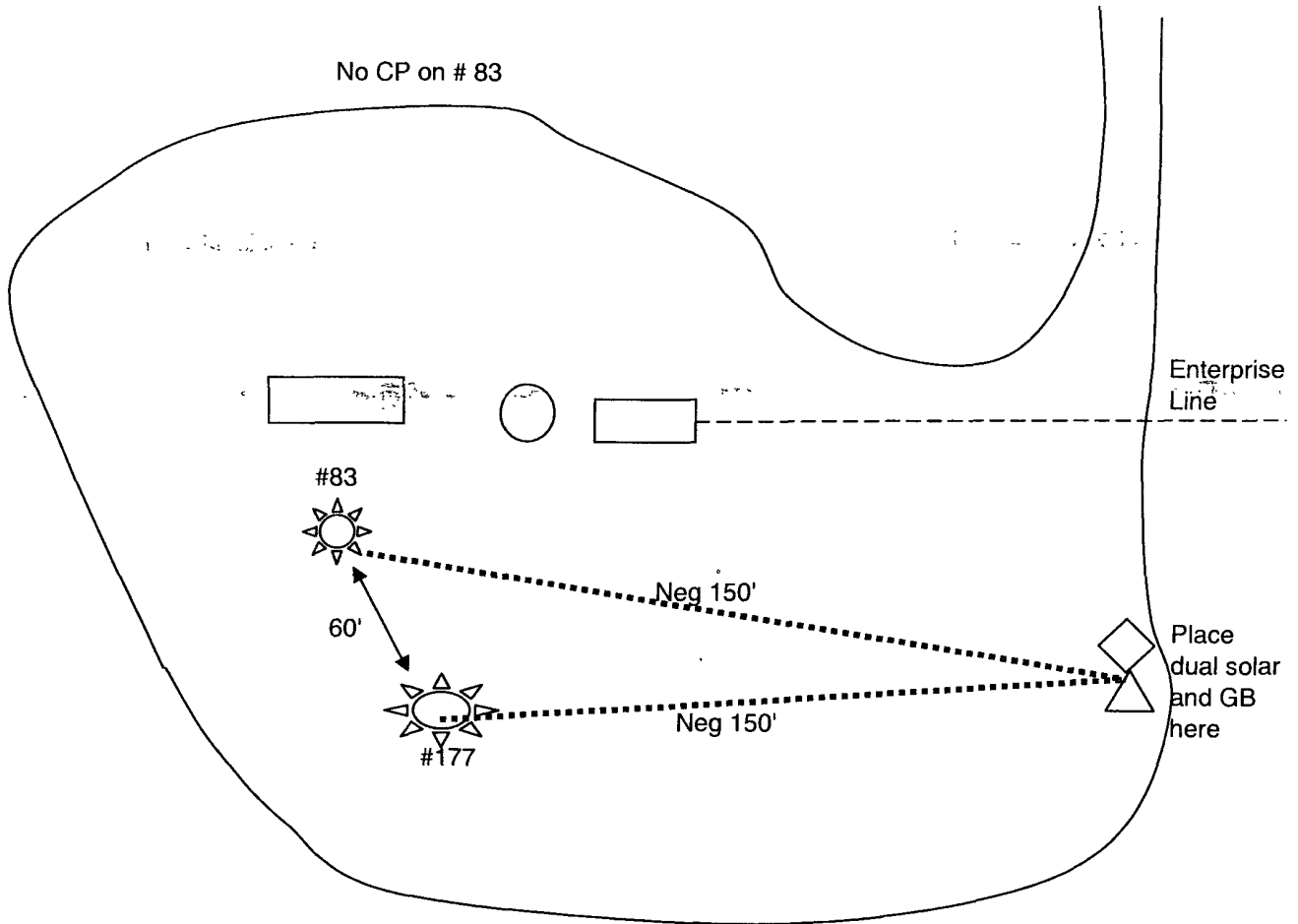
SIGNATURE Crystal Walker TITLE Regulatory Technician DATE 2/26/2008

Type or print name Crystal Walker E-mail address: crystal.walker@conocophillips.com Telephone No. 505-326-9837
For State Use Only

APPROVED BY [Signature] TITLE Deputy Oil & Gas Inspector DATE APR 14 2008
Conditions of Approval (if any): District #3

Cathodic Plat

WELL NAME: **Huerfanito # 177**



PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HUERFANITO UNIT 177

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7351		AFE \$: 204,269.77	
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)				

Location:		Datum Code: NAD 27			
Latitude: 36.548532	Longitude: -107.786850	X:	Y:	Section: 28	Range: 009W
Footage X: 765 FEL	Footage Y: 1800 FNL	Elevation: 6411 (FT)	Township: 027N		
Tolerance:					
Location Type: Year Round		Start Date (Est.): 1/1/2009		Completion Date: - Date In Operation:	
Formation Data: Assume KB = 6425 Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT
Surface Casing	120	6305	☐		
OJO ALAMO	1376	5049	☐		
KIRTLAND	1509	4916	☐		
FRUITLAND	2013	4412	☐	200	Gas
PICTURED CLIFFS	2271	4154	☐		Gas TD - T/PCCF + 200'
Total Depth	2471	3954	☐		6-1/4" hole. 4-1/2" 10.5 ppf, J-55, STC casing. Cement with 380 cuft. Circulate cement to surface.

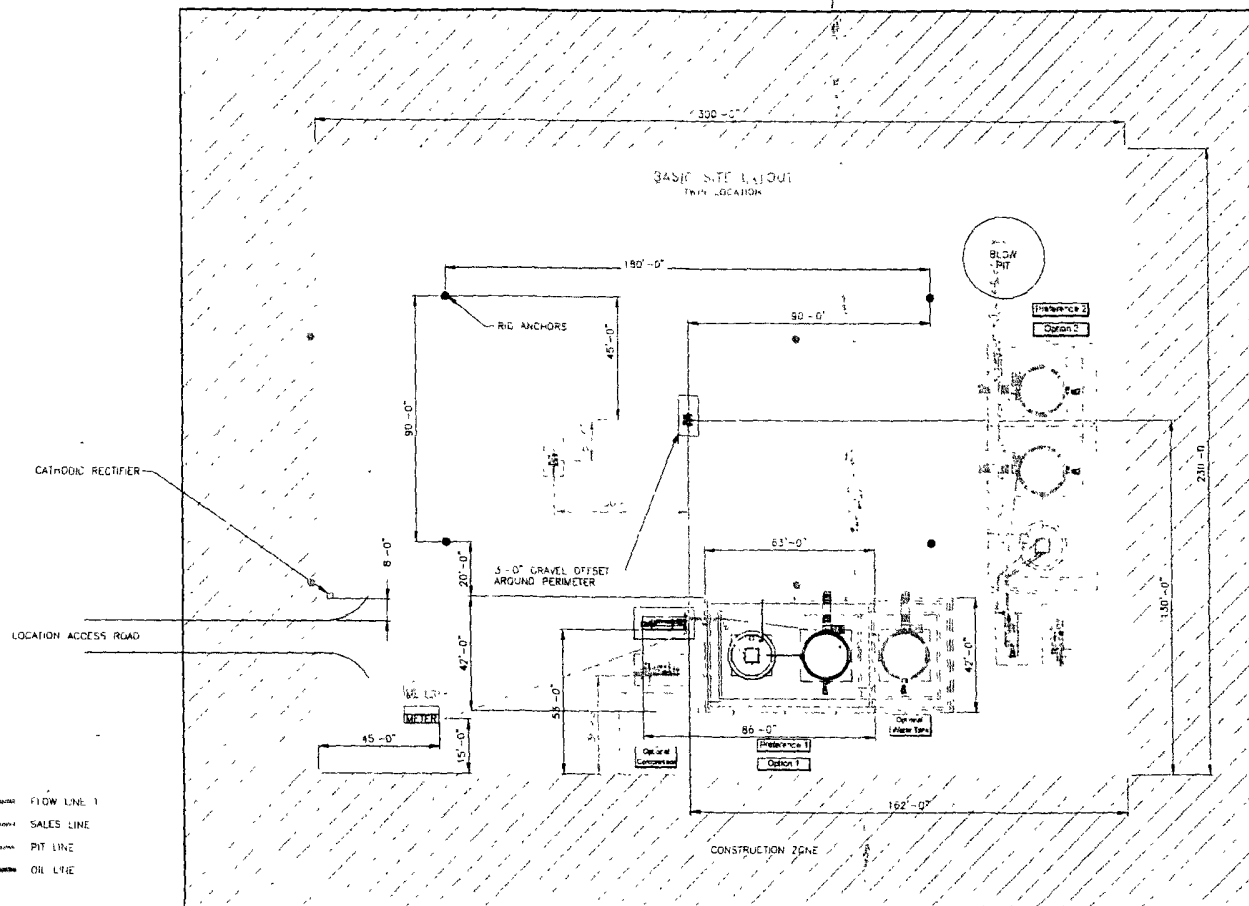
Reference Wells:		
Reference Type	Well Name	Comments
Production	Huerfanito 41	27N-9W-28 SE NW NE
Production	Huerfanito 10	27N-9W21 SE SW
Production	Huerfanito 83	27N-9W28 SE NE
Production	Huerfanito 42	27N-9W-27 NE SW NW

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

TD Logs:	☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other
GR & Density from TD to Surface. Cased Hole GR / CBL	

Additional Information:					
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks

Comments:



FLOW LINE 1
 SALES LINE
 PIT LINE
 OIL LINE

SEE SHEET 2 & 4 FOR PIPING DETAILS
 ALL UNDERGROUND PIPING IS TO BE BURIED A MIN. OF 3'-0" TOP

SHEET 1 OF 5

										ENGINEERING REVIEW			REFERENCE DRAWINGS		ConocoPhillips		CONOCOPHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT				
										DISCIPLINE	REVISIONS	DATE	NO.	DESCRIPTION							
										PROJECT						SAN JUAN BUSINESS UNIT			CLIENT NO.: CLIENT BY: CLIENT NAME: CLIENT ADDRESS: CLIENT PHONE: CLIENT FAX: CLIENT E-MAIL: CLIENT WEBSITE:		
										MECHANICAL											
										PLUMBING											
										ELECTRICAL											
										I & C											
										CIVIL/STRUCTURAL						HP3PHASE-REV1			SHEET NO.: 1 OF 5		
										PROJECT											
DESCRIPTION										DATE	BY	CHECKED	ENG	DES	PAU						

H:\Projects\San Juan Business Unit\Regulatory\San Juan Location Site Layout.dwg 06/28/2007 08:39pm

BURLINGTON RESOURCES OIL AND GAS COMPANY LP

HUERFANITO #177

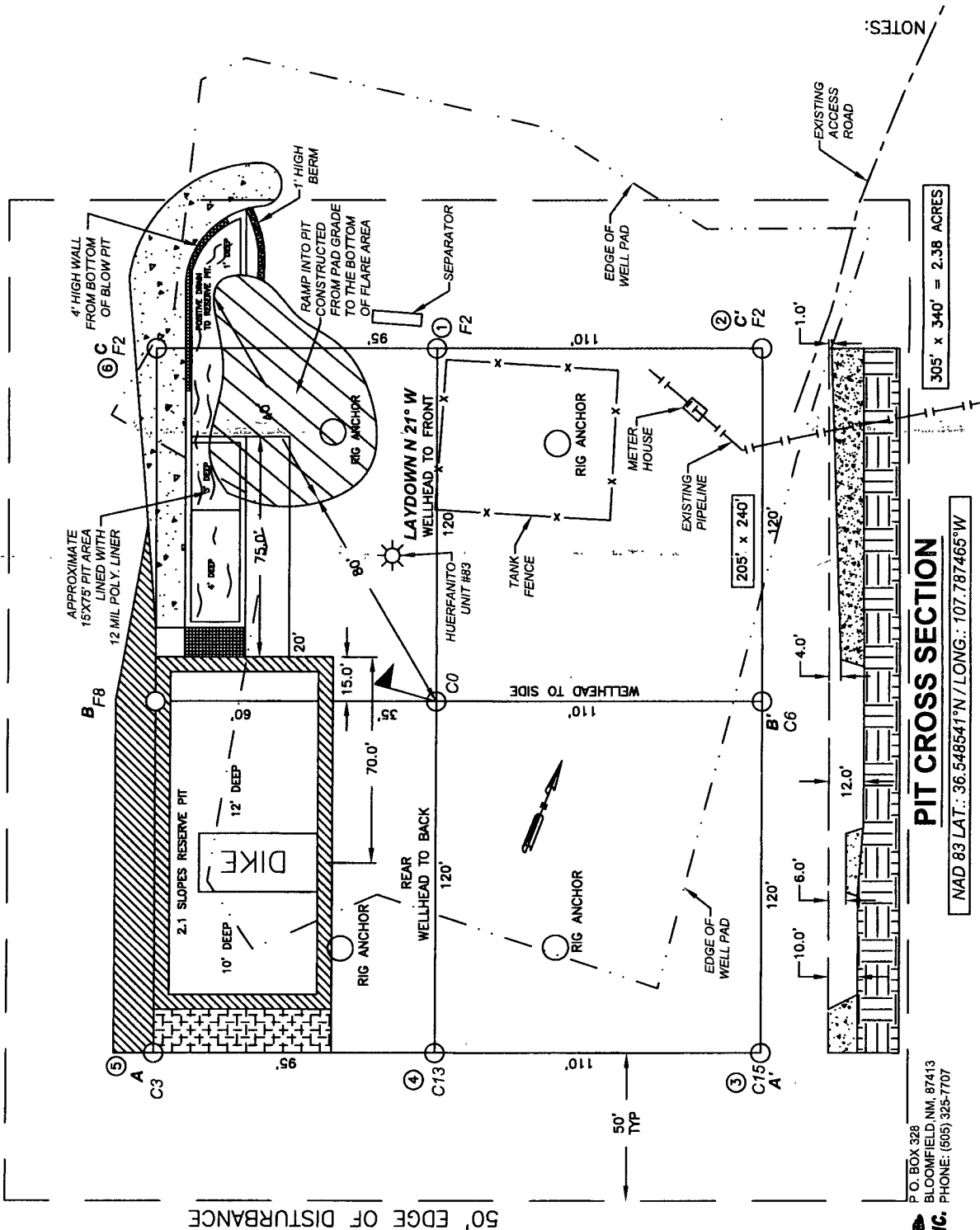
1800' FNL, 765' FEL

SECTION 28, T-27-N, R-9-W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

GROUND ELEV.: 6411 NAVD88 DATE: OCTOBER 17, 2007

NO NEW ACCESS



BURLINGTON RESOURCES OIL AND GAS COMPANY LP

HUERFANITO #177

1800' FNL, 765' FEL

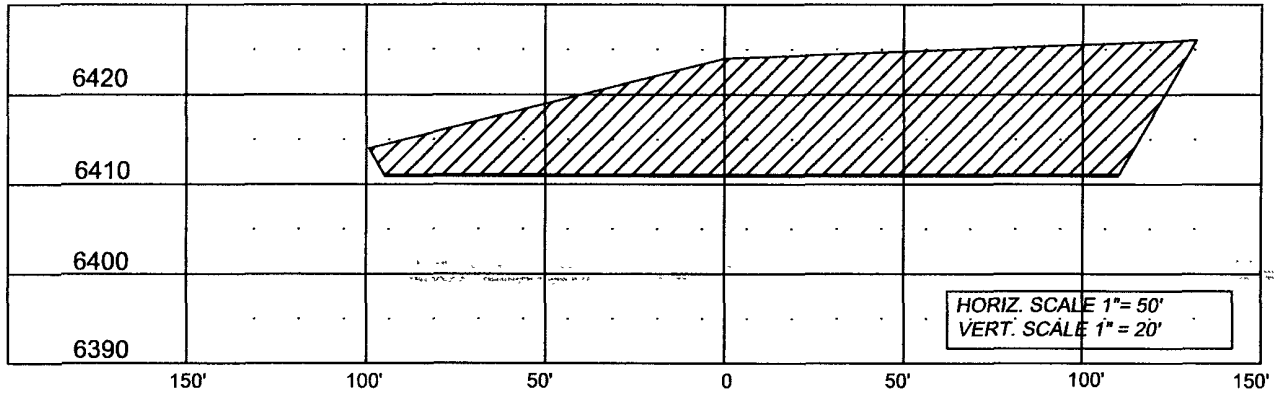
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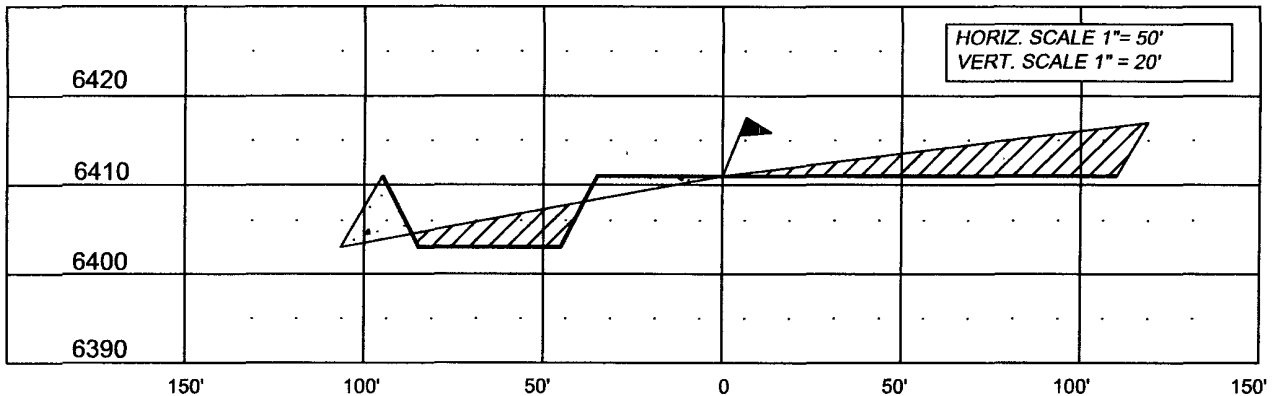
A - A' 6430

C/L



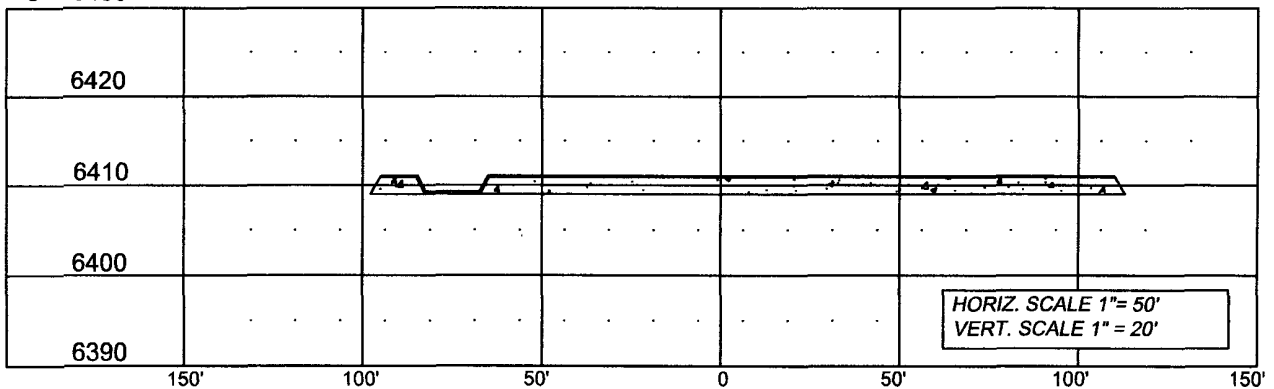
B - B' 6430

C/L



C - C' 6430

C/L



NOTE. CCI IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD PRIOR TO CONSTRUCTION.

REVISIONS

NO.	DESCRIPTION	REVISED BY	DATE
1	ISSUED FOR REVIEW	TJR	10/17/07

CCI

CHENAULT CONSULTING INC.

P.O. BOX 328
BLOOMFIELD, NM, 87413
PHONE: (505) 325-7707