

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RCUD APR 22 '08

OIL CONS. DIV.

DIST. 8

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	<b>RECEIVED</b>  APR 03 2008  Bureau of Land Management Farmington Field Office	5. Lease Number USA SF-078103-B Unit Reporting Number
1b. Type of Well GAS		6. If Indian, All. or Tribe
2. Operator <b>BURLINGTON</b> RESOURCES Oil & Gas Company, LP		7. Unit Agreement Name Huerfano Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499  (505) 326-9700		8. Farm or Lease Name  9. Well Number #557
4. Location of Well Unit O (SWSE), 830' FSL & 1515' FEL  Latitude 36.439702 N Longitude 107.754992 W		10. Field, Pool, Wildcat Basin Fruitland Coal  11. Sec., Twn, Rge, Mer. (NMPM) 0 Sec. 35, T26N, R9W  API # 30-045-34681
14. Distance in Miles from Nearest Town 33 Miles/Bloomfield, NM	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 830'		
16. Acres in Lease 800.00	17. Acres Assigned to Well FC 320 (E/2)	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 49' Huerfano Unit #238 DK		
19. Proposed Depth 2126'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6407' GL	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>Sasha Spangler</u> Sasha Spangler (Regulatory Technician)	<u>4-3-08</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

APR 23 2008 AV

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

NMOCD

NOTIFY AZTEC OGD 24 HRS.  
PRIOR TO CASING & CEMENT

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

## 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

APR 03 2008

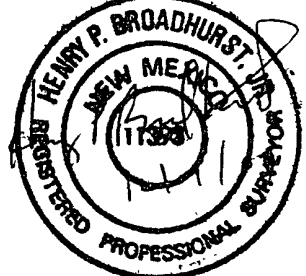
☐ AMENDED REPORT

Bureau of Land Management

## WELL LOCATION AND ACREAGE DEDICATION

<sup>1</sup> API Number 30-045- 34681		<sup>2</sup> Pool Code 71629		<sup>3</sup> Pool Name BASIN FRUITLAND COAL					
<sup>4</sup> Property Code 7139		<sup>5</sup> Property Name HUERFANO UNIT						<sup>6</sup> Well Number 557	
<sup>7</sup> OGRID No. 14538		<sup>8</sup> Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP						<sup>9</sup> Elevation 6407	
<sup>10</sup> SURFACE LOCATION									
UL or lot no. O	Section 35	Township 26-N	Range 9-W	Lot Idn	Feet from the 830	North/South line SOUTH	Feet from the 1515	East/West line EAST	County SAN JUAN
<sup>11</sup> Bottom Hole Location If Different From Surface									
UL or lot no. O	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<sup>12</sup> Dedicated Acres 320.00 E/2		<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

<sup>16</sup> <div style="text-align: center;"> E/2 DEDICATED ACREAGE  USA SF-078103-B  SECTION 35  T-26-N, R-9-W </div>		<sup>17</sup> 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 Sasha Spangler Printed Name Regulatory Technician Title and E-mail Address 12-10-07 Date	
		<sup>18</sup> 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: 10/3/07 Signature and Seal of Professional Surveyor:  Certificate Number: NM 11393	
WELL FLAG NAD 83 LAT: 36.439702° N LONG: 107.754992° W NAD 27 LAT: 36°26.381537' N LONG: 107°45.262744' W		1515' W 830' N 0°06' W N 0°12' 10" W 5221.9' (R) 5222.7' (M)	
S 89°56' E S 89°57'12" W			

## 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>346081</u>
5. Indicate Type of Lease	STATE <input type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.	SF-078103-B
7. Lease Name or Unit Agreement Name	Huerfano Unit
8. Well Number	#557
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 <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> 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 <u>O</u> : <u>830</u> feet from the <u>South</u> line and <u>1515</u> feet from the <u>East</u> line Section <u>35</u> Township <u>26N</u> Rng <u>9W</u> NMPM County <u>San Juan</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6407' 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 7200'  
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/flame 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/flame 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.

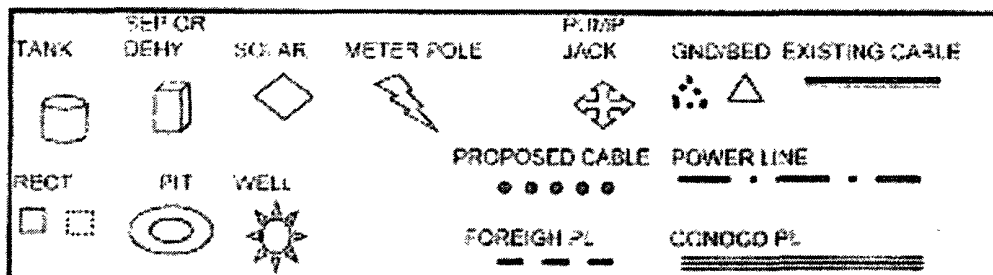
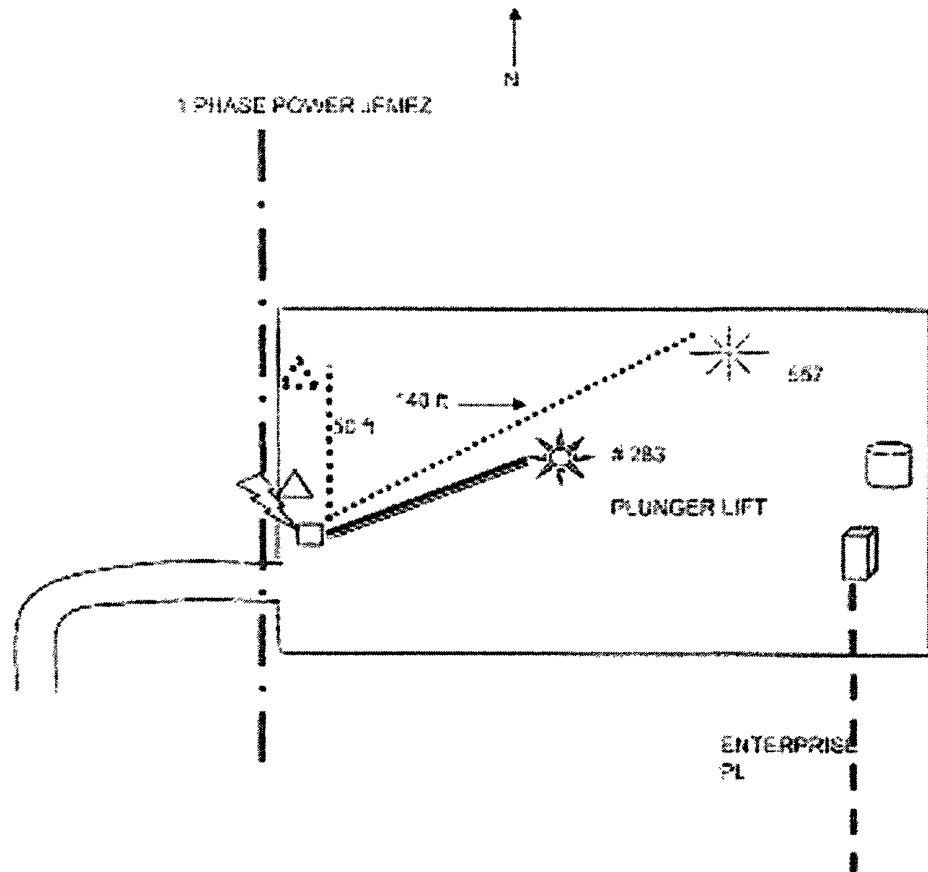
I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☒ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Crystal Walker TITLE Regulatory Technician DATE 3/24/2008Type 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 23 2008  
Conditions of Approval (if any): District #3

HUIERFANO 557





# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HUERFANO UNIT 557

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7445		AFE \$: 182,895.67	
Field Name: hBR_SAN JUAN		Rig: Aztec Rig 580		State: NM	County: SAN JUAN
Geologist:		Phone:		Geophysicist:	
Geoscientist: Clark, Dave D		Phone: 505-326-9762		Prod. Engineer:	
Res. Engineer: Akwari, Bill N		Phone: +1 505-326-9700		Proj. Field Lead:	

## Primary Objective (Zones):

Zone	Zone Name
JCV	BASIN FRUITLAND COAL (GAS)

## Location: Surface Datum Code: NAD 27 Straight Hole

Latitude: 36.439692	Longitude: -107.754378	X:	Y:	Section: 35	Range: 009W
Footage X: 1515 FEL	Footage Y: 830 FSL	Elevation: 6407 (FT)	Township: 026N		
Tolerance:					

Location Type:	Start Date (Est.): 1/1/2009	Completion Date:	Date In Operation:
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Formation Data:	Assume KB = 6419	Units = FT
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Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	120	6299	<input type="checkbox"/>			8-3/4 hole. 7" 20 ppf, J-55 STC csg. Cement with 50 cuft. Circulate cement to surface.
OJO ALAMO	1062	5357	<input type="checkbox"/>			
KIRTLAND	1226	5193	<input type="checkbox"/>			
FRUITLAND	1662	4757	<input type="checkbox"/>	400		Gas
PICTURED CLIFFS	1926	4493	<input type="checkbox"/>			Gas
Total Depth	2126	4293	<input type="checkbox"/>			6-1/4" hole. 4-1/2" 10.5 ppf, J-55, STC casing. Cement with 327 cuft. Circulate cement to surface.

## Reference Wells:

Reference Type	Well Name	Comments
Production	Huerfano 553	NW35-26N-9W
Production	Huerfano 283	SE35-26N-9W

## Logging Program:

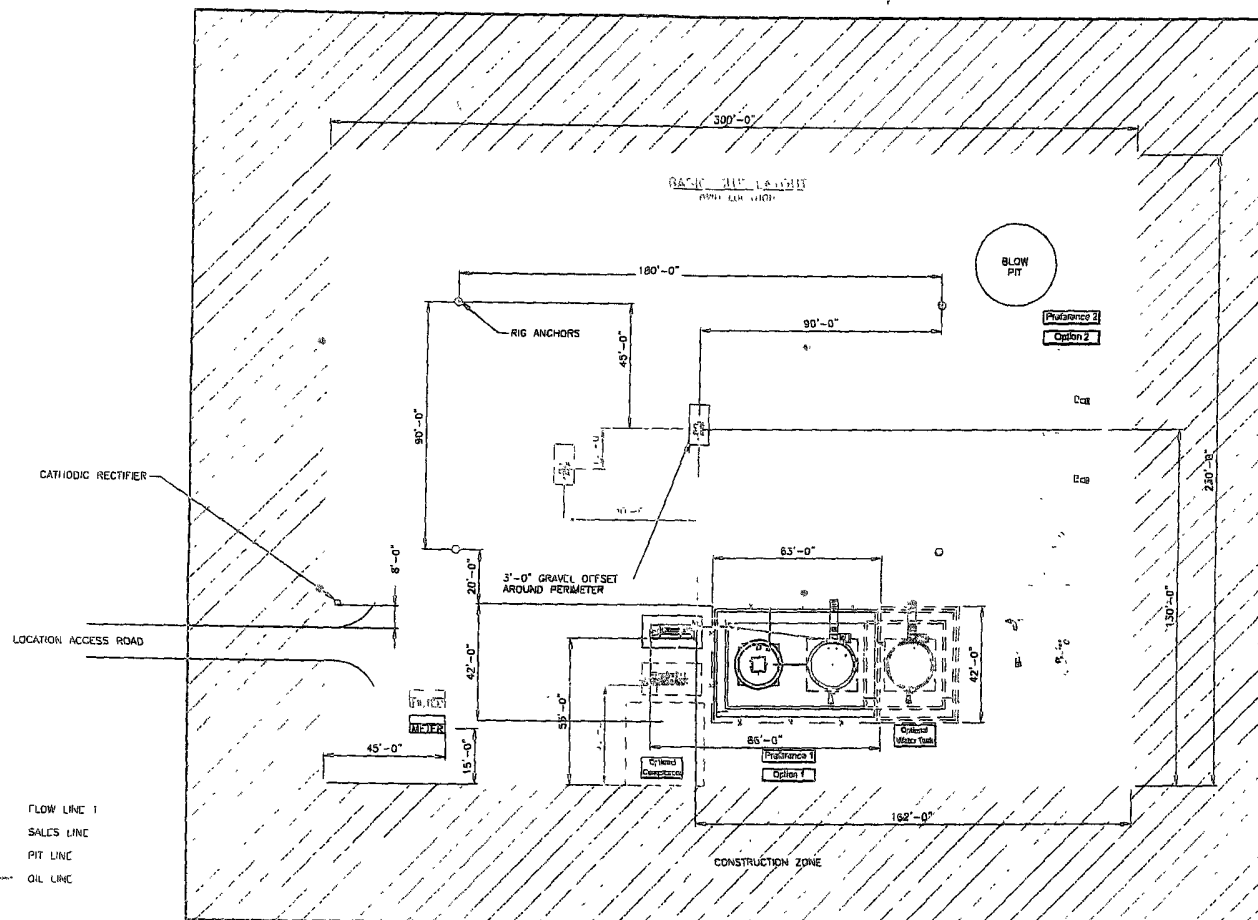
Intermediate Logs:	<input type="checkbox"/> Log only if show	<input type="checkbox"/> GR/ILD	<input type="checkbox"/> Triple Combo
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TD Logs:	<input type="checkbox"/> Triple Combo	<input type="checkbox"/> Dipmeter	<input type="checkbox"/> RFT	<input type="checkbox"/> Sonic	<input type="checkbox"/> VSP	<input checked="" type="checkbox"/> TDT	<input type="checkbox"/> Other
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GR/CBL

## Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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SEE SHEET 3 & 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		CONOCO PHILLIPS			HIGH PRESSURE 3 PHASE			FACILITY DIAGRAM- SITE LAYOUT	
DESCRIPTION	DATE	BY	CHK'D	DES	APP'D	REV	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	SAN JUAN BUSINESS UNIT			CLIENT No.	CLIENT APPR.	APPR. DATE	DATE	SCALE

# BURLINGTON RESOURCES OIL AND GAS COMPANY LP

HUERFANO UNIT #557

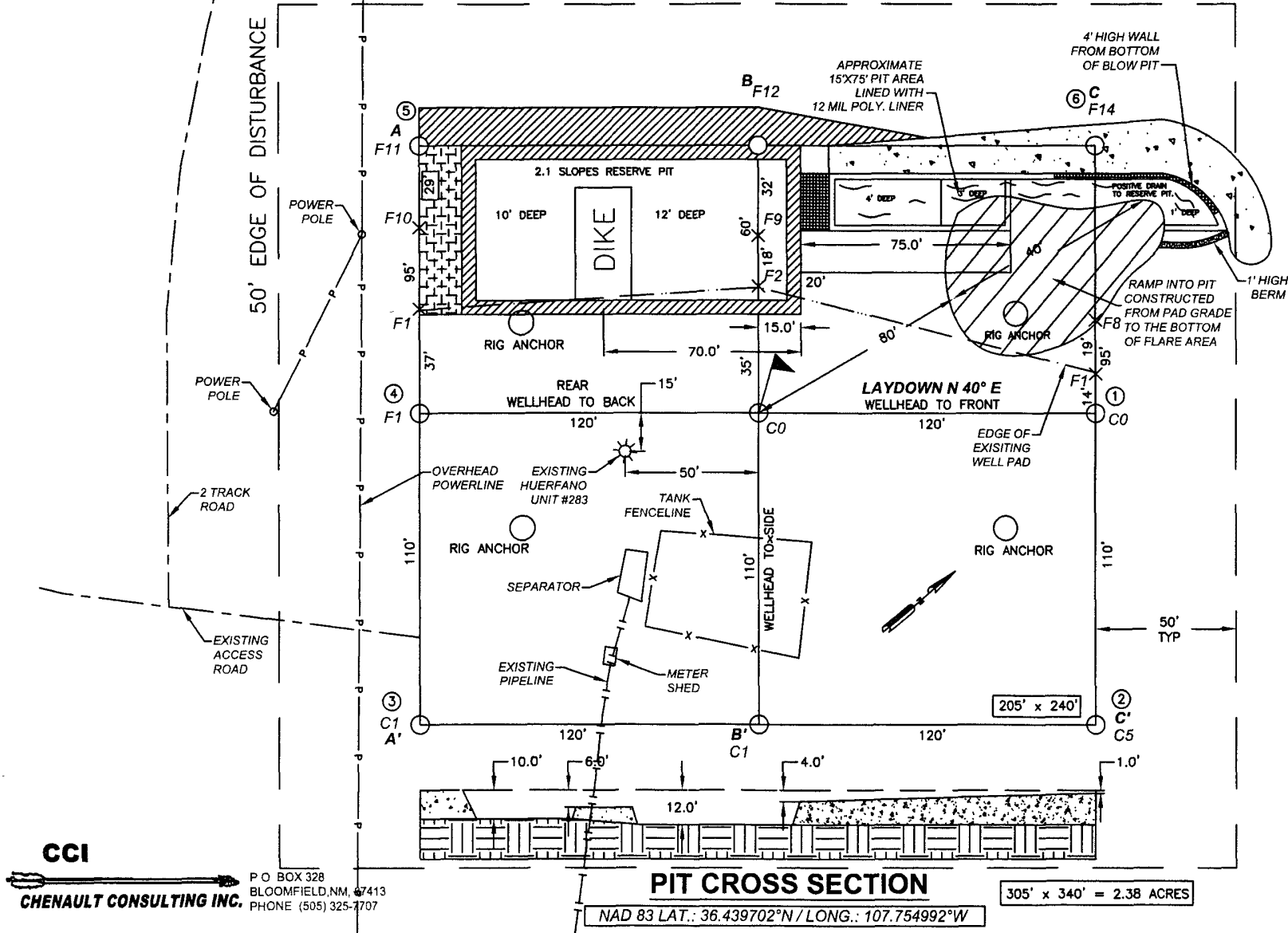
830' FSL, 1515' FEL

SECTION 35, T-26-N, R-9-W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

GROUND ELEV.: 6407 NAVD88 DATE: OCTOBER 3, 2007

NO NEW ACCESS



NOTES:

1. RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW-3' WIDE AND 1' ABOVE SHALLOW SIDE).
2. C.C.I. SURVEYS 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 AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.



# BURLINGTON RESOURCES OIL AND GAS COMPANY LP

HUERFANO UNIT #557

830' FSL, 1515' FEL

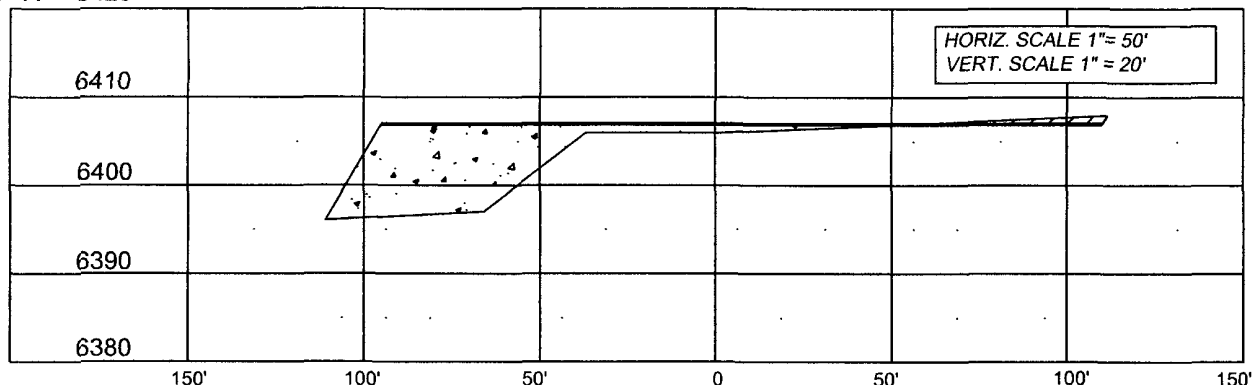
SECTION 35, T-26-N, R-9-W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

ELEV.: 6407 NAVD88

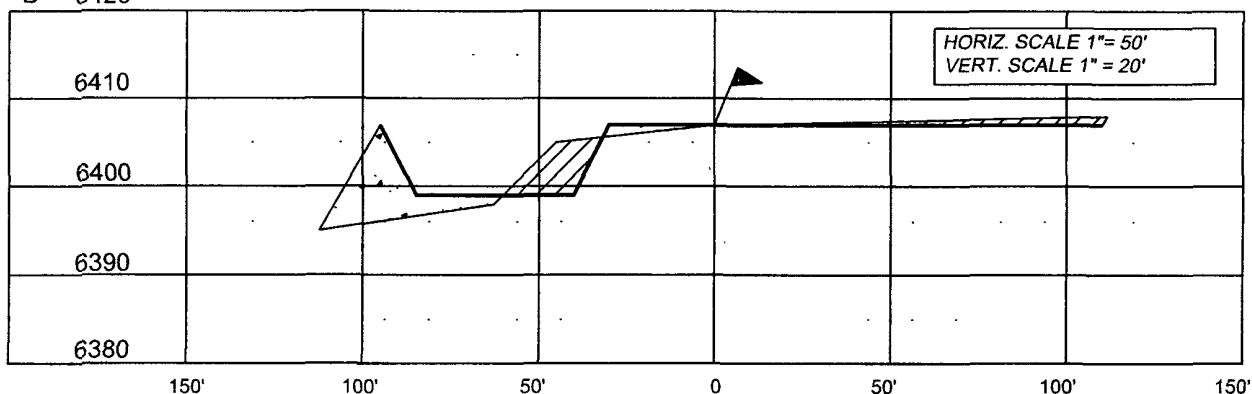
A - A' 6420

C/L



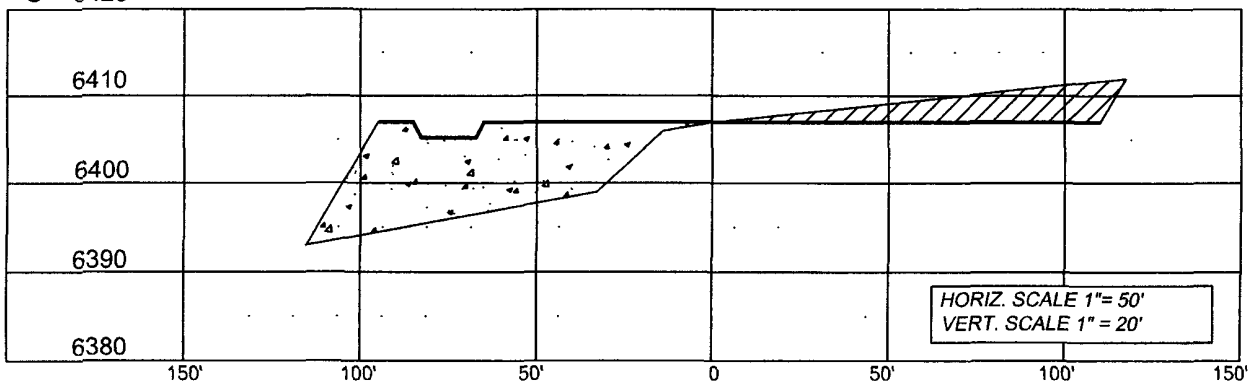
B - B' 6420

C/L



C - C' 6420

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	10/3/07

**CCI**

**CHENAULT CONSULTING INC.**

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