

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RCVD JAN 29 '08

OIL CONS. DIV.

DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number USA SF-080117 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 <i>NMNM 117829</i> 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 #47S	
4. Location of Well Unit I (NESE), 2570' FSL & 710' FEL  Latitude 36.546045 N. Longitude 107.769363 W.	10. Field, Pool, Wildcat Basin Fruitland Coal  11. Sec., Twn, Rge, Mer. (NMPM) <i>I</i> Sec. 27, T27N, R9W  API # 30-045- <i>34559</i>	
14. Distance in Miles from Nearest Town 38 Miles/Bloomfield, NM	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 2570'		
16. Acres in Lease 1040.000	17. Acres Assigned to Well FC 320.00 E/2	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 1012' from Huerfanito 40R/PC		
19. Proposed Depth 2446' <small>This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4</small>	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6387' GL	22. Approx. Date Work will Start  DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <i>Jamie Goodwin</i> Jamie Goodwin (Regulatory Technician)	<i>12/29/07</i> 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

JAN 31 2008 NMOC

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  
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

JAN 3 2008

Bureau of Land Management ☐ AMENDED REPORT  
Burlington Field Office

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-045-34559	<sup>2</sup> Pool Code 71629	<sup>3</sup> Pool Name BASIN FRUITLAND COAL
<sup>4</sup> Property Code 7138	<sup>5</sup> Property Name HUERFANITO UNIT	<sup>6</sup> Well Number 47S
<sup>7</sup> OGRID No. 14538	<sup>8</sup> Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP	<sup>9</sup> Elevation 6387

<sup>10</sup> SURFACE LOCATION

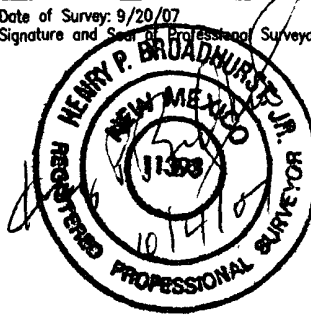
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	27	27-N	9-W		2570	SOUTH	710	EAST	SAN JUAN

<sup>11</sup> 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									

<sup>12</sup> Dedicated Acres 320.00 e/2	<sup>13</sup> Joint or Infill 2	<sup>14</sup> Consolidation Code	<sup>15</sup> 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	E/2 DEDICATED ACREAGE USA SF-080117 SECTION 27 T-27-N, R-09-W		710'	2570'	2645.3' (R) 2643.0' (M)	NORTH N 0°03'34" W	2636.7' (R) 2635.2' (M)	N 89°53' W N 89°54'24" 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>Jamie Goodwin</i> Signature Jamie Goodwin 01/03/2008 Printed Name Regulatory Tech. Title and E-mail Address 01/03/2008 Date
	WELLFLAG NAD 83 LAT: 36.546045° N LONG: 107.769363° W NAD 27 LAT: 36° 32.762187' N LONG: 107° 46.124957' W								
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: 9/20/07 Signature and Seal of Professional Surveyor:  Certificate Number: NM 11393									

## Energy, Minerals and Natural Resources

## 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- 34559

5. Indicate Type of Lease

STATE ☐FEE ☐

6. State Oil &amp; Gas Lease No.

Federal Lease - SF-080117

7. Lease Name or Unit Agreement Name

Hurfanito Unit

8. Well Number

475

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 &amp; GAS COMPANY LP

3. Address of Operator

3401 E. 30TH STREET, FARMINGTON, NM 87402

4. Well Location

Unit Letter I : 2570 feet from the South line and 710 feet from the East line  
Section 27 Township 27N Range 9W NMPM County San Juan

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

6387' GL

Pit or Below-grade Tank Application

☒ or Closure ☐

Pit type

Workover

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

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:

Drilling 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 Sasha Spangler TITLE Regulatory Technician DATE 10/10/2007

Type or print name

Sasha Spangler

E-mail address:

Telephone No.

505-326-9568

For State Use Only

Deputy Oil & Gas Inspector,  
District #3

APPROVED BY

TITLE

DATE

JAN 31 2008

Conditions of Approval (if any):

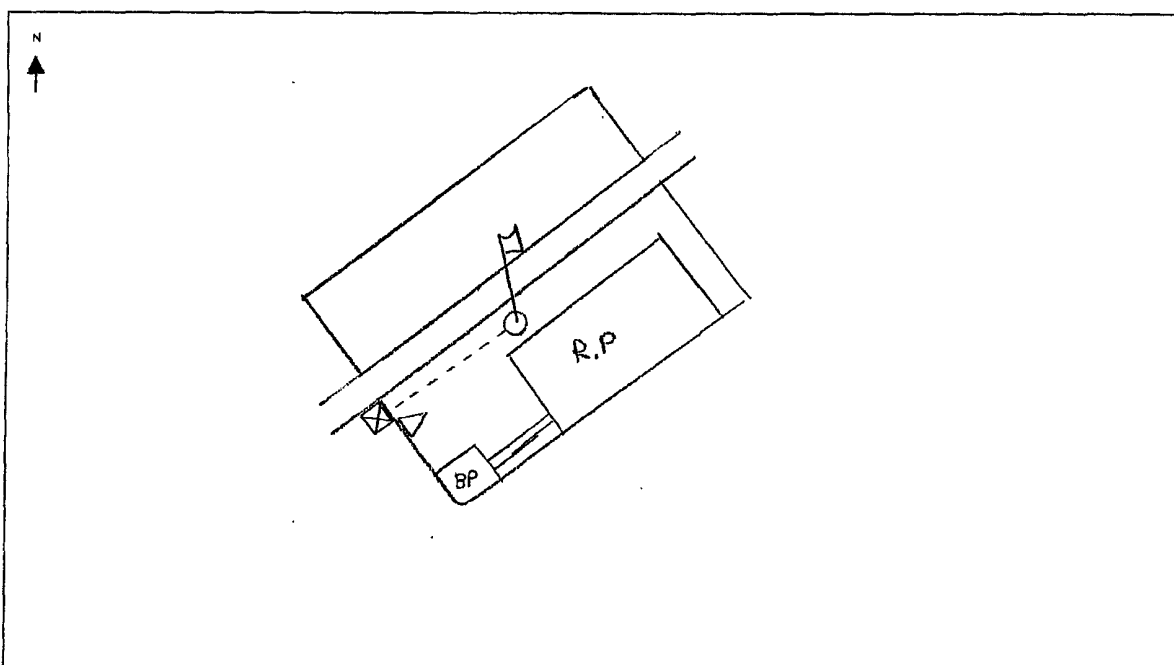


TECHNICAL SERVICES  
A CORROSION COMPANY

## CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME Huerfano Unit #475 LEGALS 1-27-27-9 COUNTY San Juan

PURPOSED C.P. SYSTEM: Drill GB and set 2 well solar on SE edge of location. Trench approx 1100' of #8 neg from proposed 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: N/A

TECHNICIAN: Michael J. Hingora DATE: 10/17/2007

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

*[Handwritten signature]*

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HUERFANITO UNIT 47S

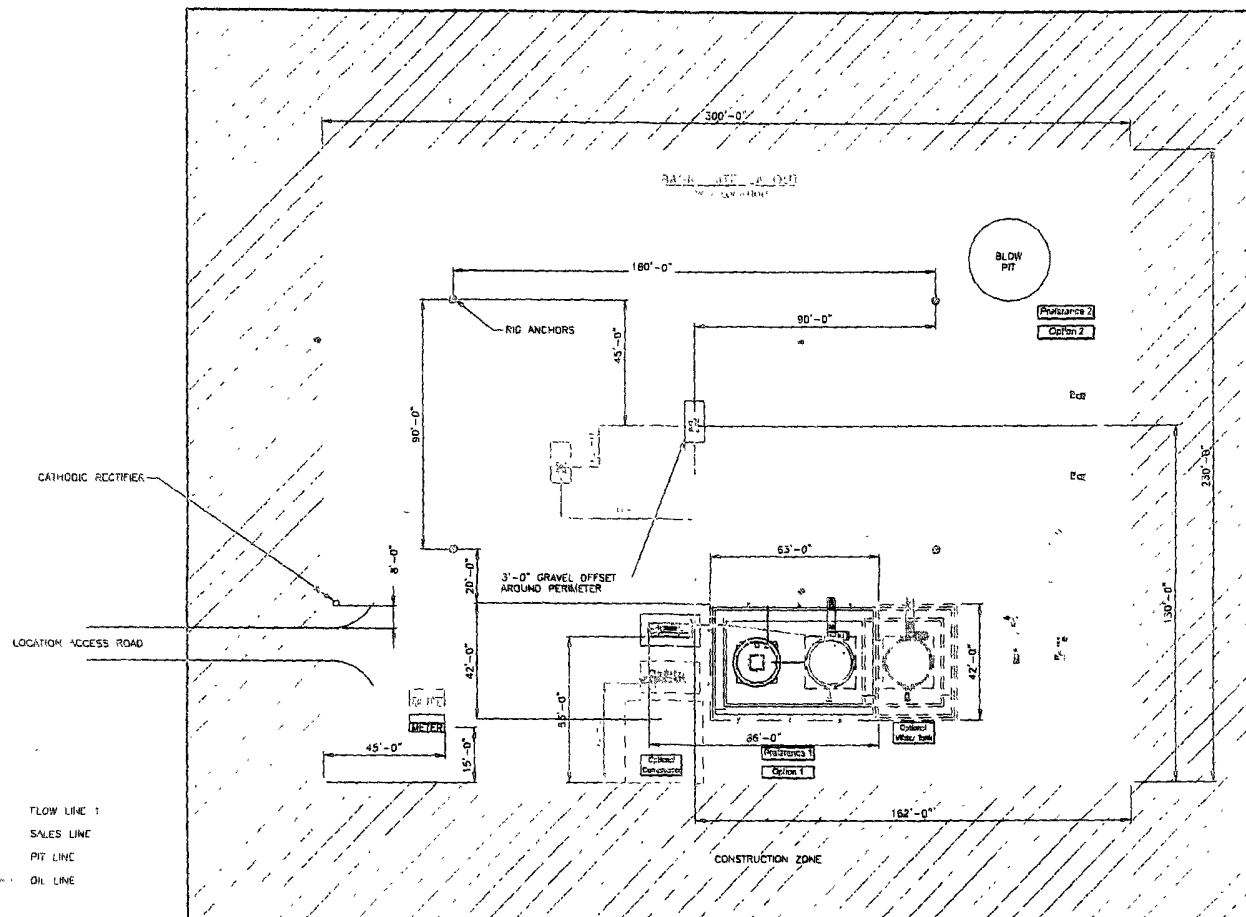
DEVELOPMENT

Lease:		AFE #: WAN.CDR.7374		AFE \$: 193,444.68	
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:		Phone:		Proj. Field Lead:	
<b>Primary Objective (Zones):</b>					
<b>Zone</b>	<b>Zone Name</b>				
JCV	BASIN FRUITLAND COAL (GAS)				
<b>Location: Surface</b>					
<b>Datum Code: NAD 27</b>		<b>Straight Hole</b>			
Latitude: 36.546036	Longitude: -107.768749	X:	Y:	Section: 27	Range: 009W
Footage X: 710 FEL	Footage Y: 2570 FSL	Elevation: 6387	(FT)	Township: 027N	
Tolerance:					
Location Type: Year Round		Start Date (Est.): 1/1/2008		Completion Date:	
Formation Data: Assume KB = 6399		Units = FT			
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT
Surface Casing	120	6279	<input type="checkbox"/>		
OJO ALAMO	1370	5029	<input type="checkbox"/>		
KIRTLAND	1510	4889	<input type="checkbox"/>		
FRUITLAND	1904	4495	<input type="checkbox"/>	300	Gas
PICTURED CLIFFS	2246	4153	<input type="checkbox"/>		Gas
Total Depth	2446	3953	<input type="checkbox"/>		6-1/4" hole. 4-1/2" 10.5 ppf, J-55, STC casing. Cement with 376 cuft. Circulate cement to surface.
<b>Reference Wells:</b>					
Reference Type	Well Name		Comments		
Intermediate	Huerfanito 40R		45-30863		
<b>Logging Program:</b>					
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 - FCNM027N009W27SE1 Stay 800' away from Huerfanito 40-27(PC), topo could be an issue, prefer J,P,I,O.

Zones - FCNM027N009W27SE1

General/Work Description - Re Plat Review Land, waiting on Dollie to fix Lease Serial number on C-102. 10/18/07 RTD



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

SHEET 1 OF 2

										CONOCO/PHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM - SITE LAYOUT		
CONOCO/PHILLIPS SAN JUAN BUSINESS UNIT										SHEET NO. 1 OF 5		
ENGINEERING REVIEW DESIGNED BY: [ ] CHECKED BY: [ ] APPROVED BY: [ ] DATE: [ ]										REFERENCE DRAWINGS NO. [ ] DESCRIPTION: [ ]		
PROJECT: [ ] MECHANICAL: [ ] PIPING: [ ] ELECTRICAL: [ ] INSTRUMENTATION: [ ] OTHER: [ ]										QUOTE NO.: [ ] QUOTE DATE: [ ] QUOTE BY: [ ]		

10/25/2007 10:00 AM

# BURLINGTON RESOURCES OIL AND GAS COMPANY LP

HUERFANTO UNIT #478

2570' FSL, 710' FEL

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

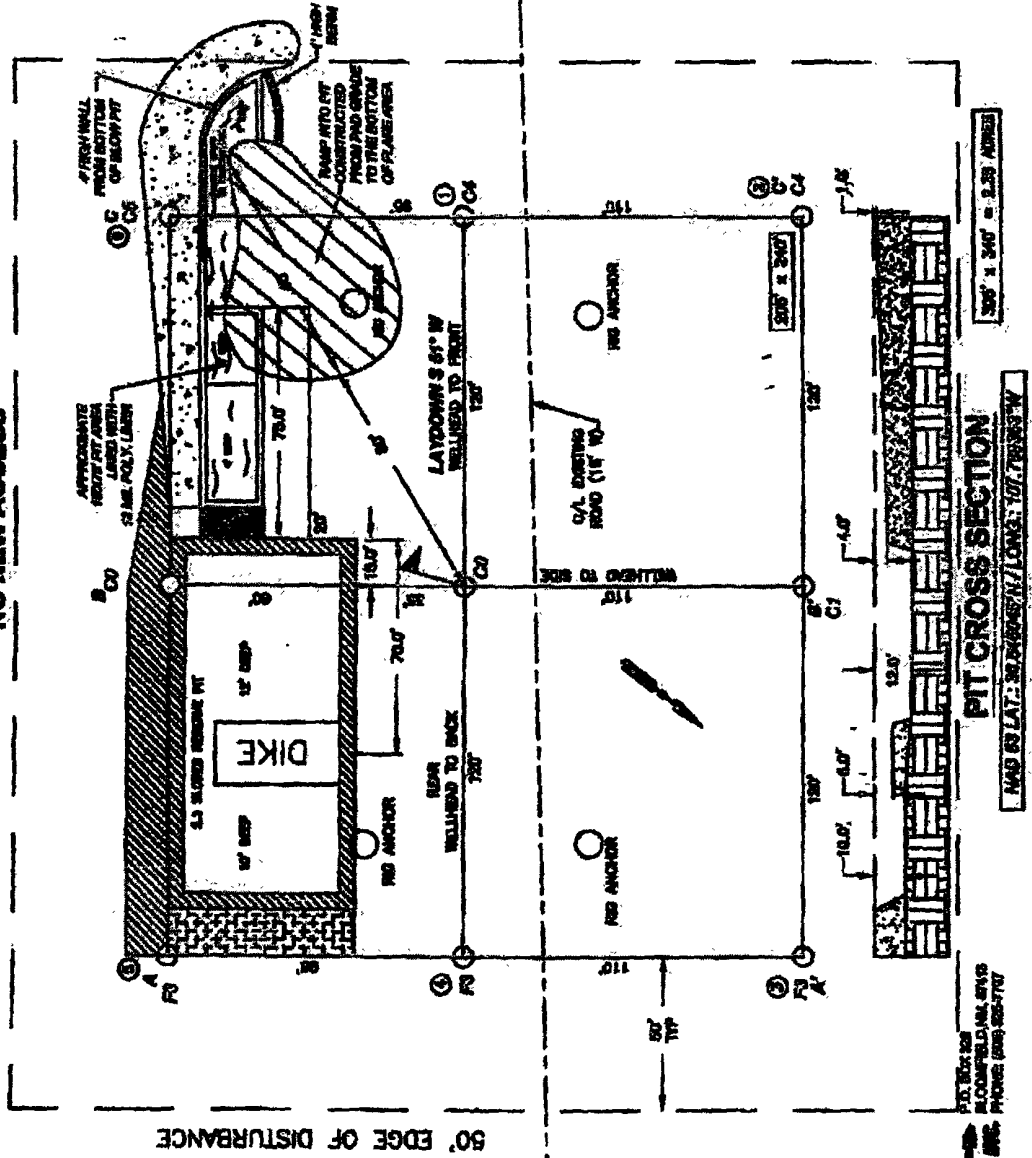
SAN JUAN COUNTY, NEW MEXICO

GROUND ELEV.: 6387 NAVD88 DATE: SEPTEMBER 20, 2007

NO NEW ACCESS

1. RESERVE PIT DIKE TO BE 8' ABOVE DEEP SIDE (OVERFLOW-3' WIDE AND 1' ABOVE SHALLOW SIDE).
2. C.C.T. 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.

NOTES:



CCI

C.C.I. CONSULTING INC.

# BURLINGTON RESOURCES OIL AND GAS COMPANY LP

HUERFANITO UNIT #478

2570' FSL, 710' FEL

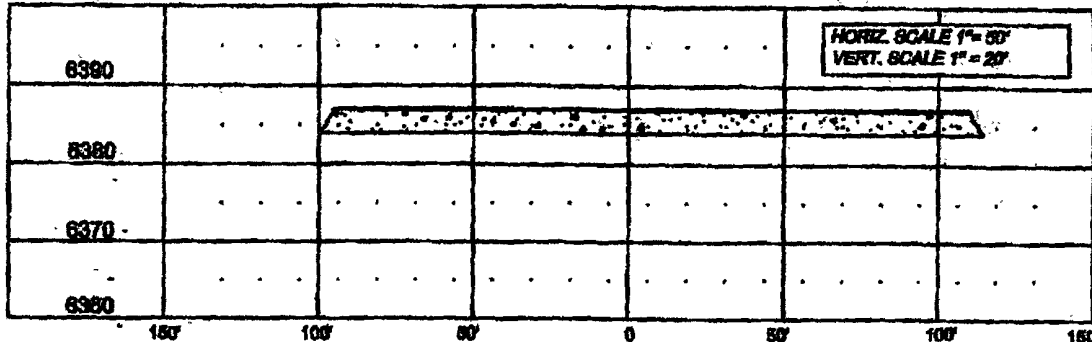
SECTION 27, T-27-N, R-9-W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

GROUND ELEV.: 6387 NAVD88

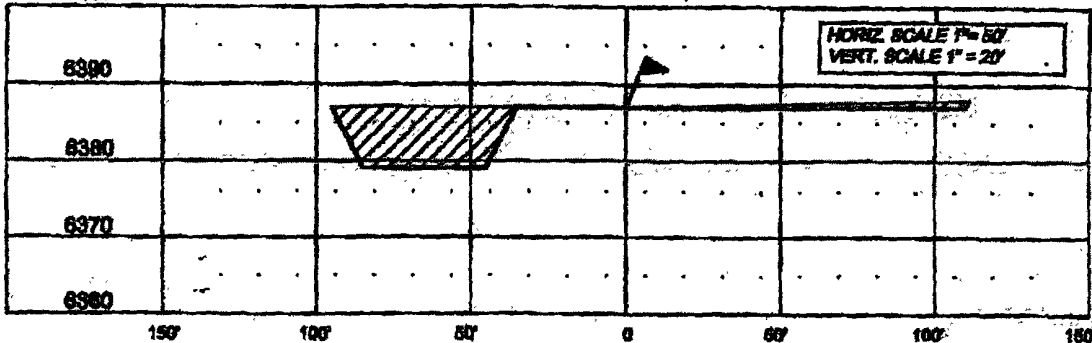
A - A' 6400

CL



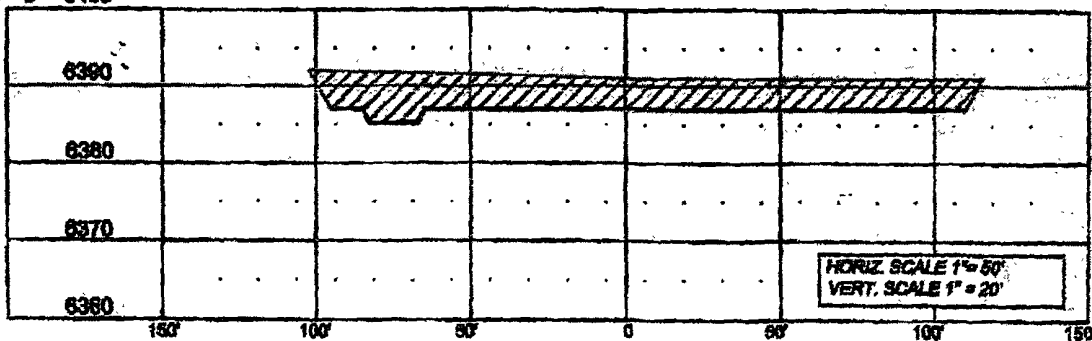
B - B' 6400

CL



C - C' 6400

CL



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	REVIEWED BY	DATE
1	ISSUED FOR REVIEW	TJR	8/20/21

CCI

P.O. BOX 123  
BLOOMFIELD, NM 87413  
PHONE: (505) 828-7797

CHRYSLER CONSULTING INC.