

RCUD APR 10 '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 MAR 19 2008 Bureau of Land Management Farmington Field Office	5. Lease Number USA SF-078135 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
		9. Well Number #87E
4. Location of Well Surf: Unit O (SWSE), 930' FSL & 1450' FEL Surf: Latitude 36.512300° N Longitude 107.737145° W		10. Field, Pool, Wildcat Basin Dakota
		11. Sec., Twn, Rge, Mer. (NMPM) 0 Sec. 1, T26N, R9W API # 30-045-34662
14. Distance in Miles from Nearest Town 34 Miles/Bloomfield	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 930'		
16. Acres in Lease 2241.88 Acres	17. Acres Assigned to Well 320 Acres (S/2)	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 54' from Huerfanito Unit #14		
19. Proposed Depth 6661'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6207' GR	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Sasha Spangler</u> Sasha Spangler (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 4

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

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

APR 14 2008

AV

NMOCD 8

H₂S POTENTIAL EXIST

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AN OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATION ON FEDERAL AND INDIAN LANDS

NOTIFY AZTEC OGD 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

MAR 19 2008

Bureau of Land Management ☐ AMENDED REPORT
Farmington Field Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045- 34662	² Pool Code 71599	³ Pool Name BASIN DAKOTA
⁴ Property Code 7138	⁵ Property Name HUERFANITO UNIT	⁶ Well Number 87E
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6207

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
0	1	26-N	9-W		930	SOUTH	1450	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
0									

¹² Dedicated Acres 320.0	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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 	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 Sasha SPangler Printed Name Regulatory Technician Title and E-mail Address 03-19-08 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: 11/08/07 Signature and Seal of Professional Surveyor Certificate Number: NM 11393

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- 34662

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

#87E

9. OGRID Number

14538

10. Pool name or Wildcat

Basin Dakota

SUNDY 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 O : 930 feet from the South line and 1450 feet from the East line
Section I Township 26N Rng 9W NMPM County San Juan

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

6207' GR

Pit or Below-grade Tank Application

☐ or ClosurePit type New Drill

Depth to Groundwater

<100'

Distance from nearest fresh water well

>1000'

Distance from nearest surface water

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

☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK

☐

ALTERING CASING

☐

COMMENCE DRILLING OPNS.

☐

P AND A

☐

CASING/CEMENT JOB

☐

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

2/26/2008

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,
District #3

DATE

APR 14 2008

Conditions of Approval (if any):

Cathodic Protection Plat

COMPANY

BURLINGTON

Charge Code

WAN.RFE.PD07.JY

WELL NAME

HUERFANITO UNIT # 87 E

DATE

12/27/2007

DUAL WELL

WELL NAME

TRIPLE WELL

WELL NAME

COORDINATES

SEC

TNSHP

RANGE

LATITUDE

LONGITUDE

SE 1

26 N

9 W

36.512300 N

107.737145 W

COUNTY

SAN JUAN

RECTIFIER

SIZE

NEEDED

EXISTING

1 PHASE

3 PHASE

SOLAR

GROUND BED

240 V METER POLE

480 V METER POLE

D C CABLES

A C CABLES

PRIMARY POWER

DISTANCE TO POWER

UNDERGROUND

PUMPJACK

WATER PUMP

COMPRESSOR

RTU

SAMS

TANKS

30/12

x

x

8

400 ft

8

1320 ft

city Fmt

1/2 mile

COMMENTS

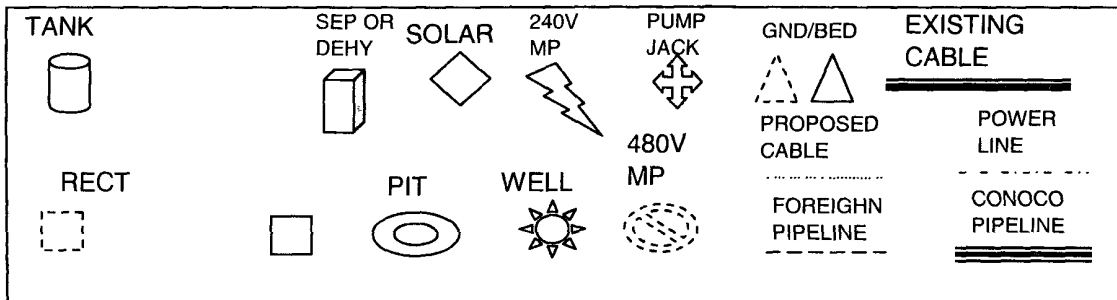
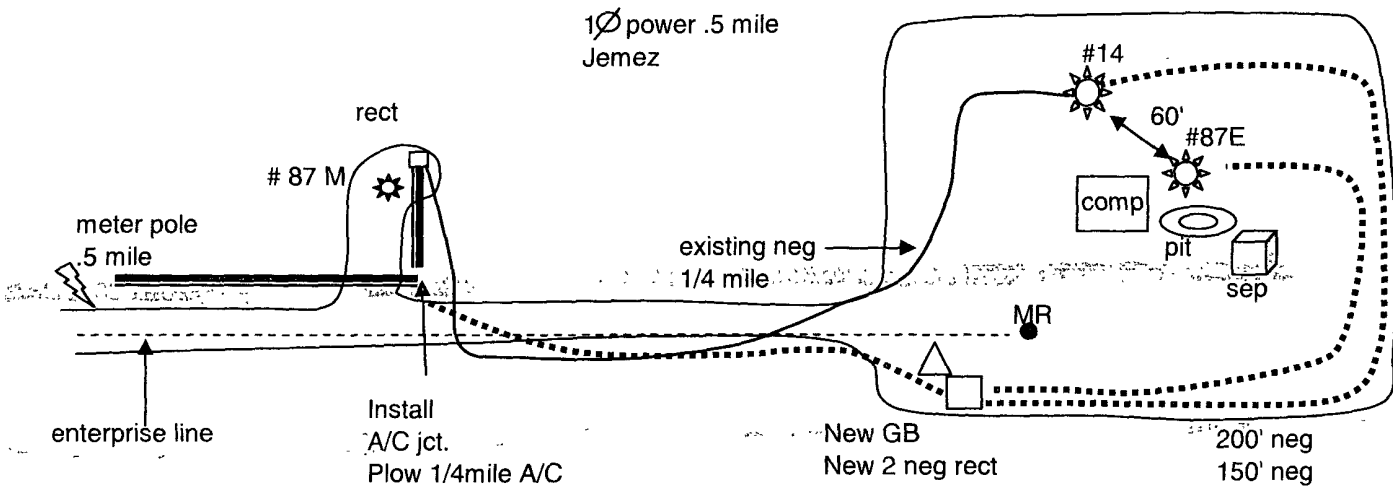
abandon present neg from # 87 M . Install ac jct box - plow ac cable to new rectifier

no # 87 E . New GB - Rect and negatives to both wells

sandy soil

Cathodic Plat

Huerfanito # 87 E



PROJECT PROPOSAL - New Drill / Sidetrack

HUERFANITO UNIT 87E

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7432		AFE \$: 574,330.20	
Field Name: hBR_SAN JUAN		Rig: Bearcat Rig 4		State: NM	County: SAN JUAN
Geologist:		Phone:		Geophysicist:	
Geoscientist: Head, Chip F		Phone: 505-326-9772		Prod. Engineer:	
Res. Engineer: Prabowo, Wahyu		Phone: 505-326-9797		Proj. Field Lead:	
				Phone:	

Primary Objective (Zones):

Zone	Zone Name
FRR	BASIN DAKOTA (PRORATED GAS)

Location: Surface Datum: Code NAD 27 Straight Hole

Latitude: 36.512291 Longitude: -107.736532 X: 528447.55 Y: 2005735.58 Section: 01 Range: 009W

Footage X: 1450 FEL Footage Y: 930 FSL Elevation: 6207 (FT) Township: 026N

Tolerance:

Location Type: Year Round Start Date (Est.): 1/1/2009 Completion Date: Date In Operation:

Formation Data: Assume KB = 6221 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	320' 200'	6021	☐			320' 8 5/8" 24 ppf, J-55, STC casing. Cement with 200 cuft. Circulate cement to surface.
OJO ALAMO	1142	5079	☐			
KIRTLAND	1267	4954	☐			
FRUITLAND	1657	4564	☐			
PICTURED CLIFFS	1960	4261	☐			
LEWIS	2084	4137	☐			
HUERFANITO BENTONITE	2415	3806	☐			
CHACRA	2845	3376	☐			
UPPER CLIFF HOUSE	3512	2709	☐			
MENEFEE	3606	2615	☐			
MASSIVE POINT LOOKOUT	4256	1965	☐	800		
MANCOS	4590	1631	☐			
UPPER GALLUP	5421	800	☐			
GREENHORN	6254	-33	☐			
GRANEROS	6302	-81	☐			
TWO WELLS	6336	-115	☐	1800		
PAGUATE	6379	-158	☐			
CUBERO	6412	-191	☐			
LOWER CUBERO	6478	-257	☐			
ENCINAL	6591	-370	☐			TD 30' below T/ENCN + 40' for mudshoe.
Total Depth	6661	-440	☐			TD 70' below T/ENCN. 6-1/4" hole, 4-1/2" 11.6 ppf, N-80 LTC casing. Cement with 1963 cuft

Reference Wells:

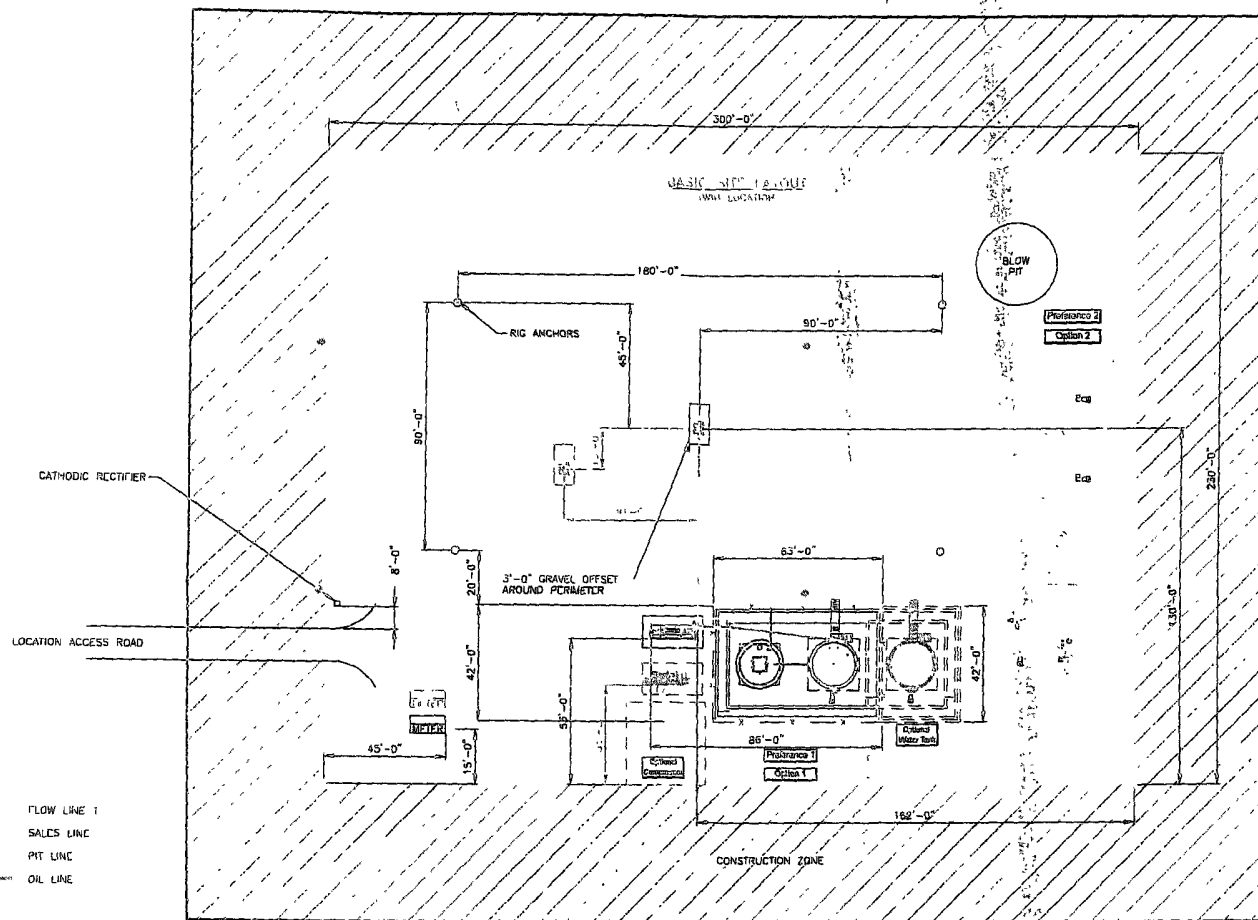
Reference Type	Well Name	Comments
Production	Huerfanito 13	26N-9W1 NW SE SW
Production	Huerfanito 87M	26N-9W1 SE
Production	Huerfanito 87	26N-9W1 NE SW
Production	Huerfanito 14	26N-9W1 NE SW SE

PROJECT PROPOSAL - New Drill / Sidetrack**HUERFANITO UNIT 87E****DEVELOPMENT****Logging Program:**Intermediate Logs: ☐ Log only if show ☐ GR/ILD ☐ Triple ComboTD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other

Cased Hole GR / CBL

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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SEE SHEET 2 & 3 FOR PAVING DETAILS
ALL UNDERGROUND MPC IS TO BE BURIED 4 MIN. OF 3'-0" TOP

SHEET 1 OF 5

										ENGINEERING REVIEW			REFERENCE DRAWINGS		CONOCOPHILLIPS HIGH PRESSURE 5 PHASE FACILITY DIAGRAM- SITE LAYOUT			
										DISCIPLINE	REVIEWED	DATE	NO.	DESCRIPTION				
										PROCESS					ConocoPhillips	SAN JUAN BUSINESS UNIT		
										MECHANICAL								
										PURGE								
										ELECTRICAL								
										I & C								
										CIVIL/STRUCTURAL								
										PROJECT					CLIENT NO.	CLIENT APPRO.	APPRO. DATE	
										DESCRIPTION	DATE	BY	CHECK'D	DATE	SCALE: NONE	DATE: 06/20/07		
															HP5PHASE-REV1			

Process: SAN JUAN BUSINESS UNIT Location: Site Layout, 06/20/2007 - 06/20/07

BURLINGTON RESOURCES OIL AND GAS COMPANY LP

HUERFANITO UNIT #87E

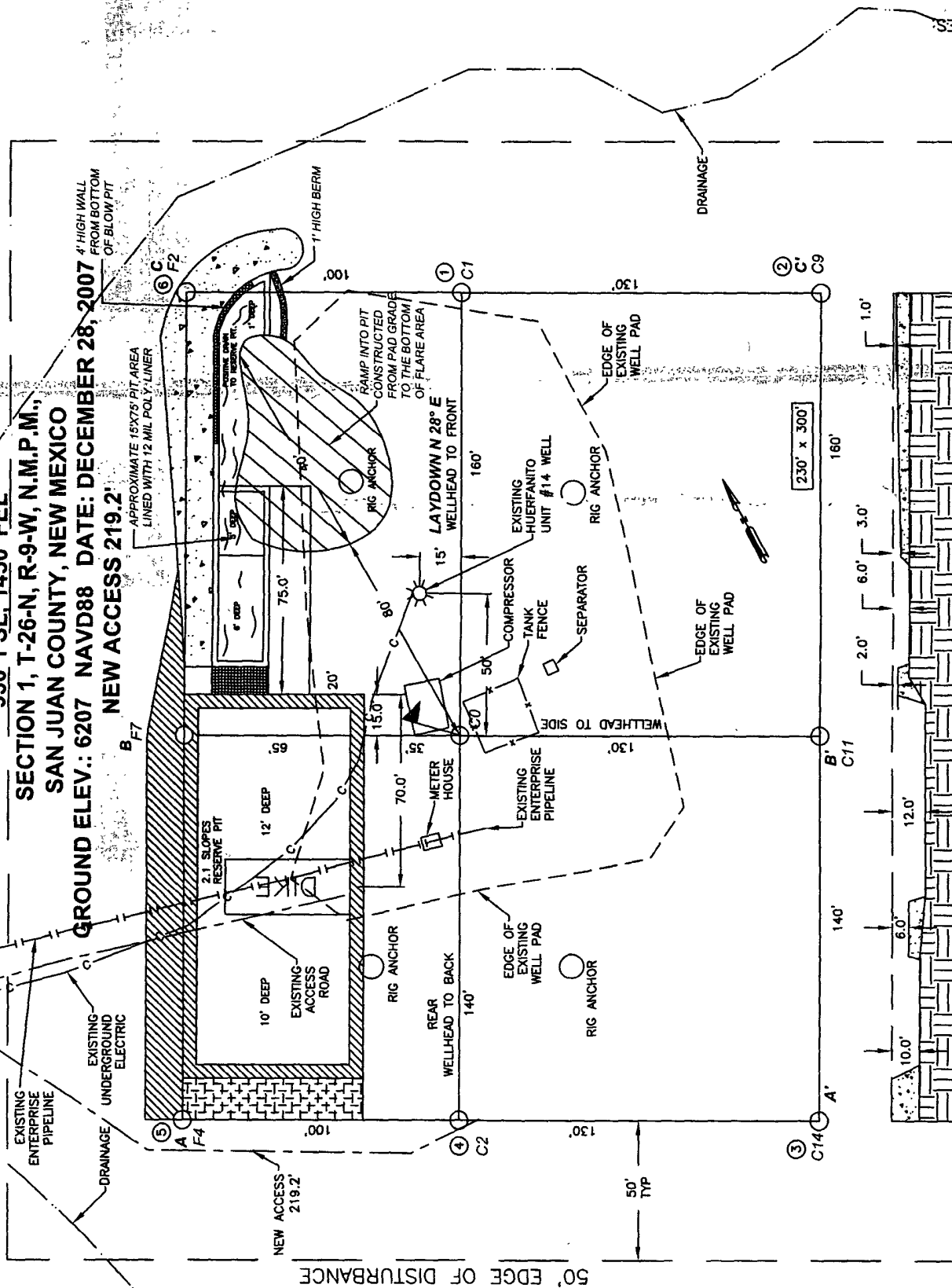
930' FSL, 1450' FEL

SECTION 1, T-26-N, R-9-W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

GROUND ELEV.: 6207 NAVD88 DATE: DECEMBER 28, 2007

NEW ACCESS 219.2'



CCI

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

PIT CROSS SECTION

NAD 83: LAT: 36.512300°N / LONG: 107.737145°W

330' x 400' = 3.03 ACRES

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.

NOTES

BURLINGTON RESOURCES OIL AND GAS COMPANY LP

HUERFANITO UNIT #87E

930' FSL, 1450' FEL

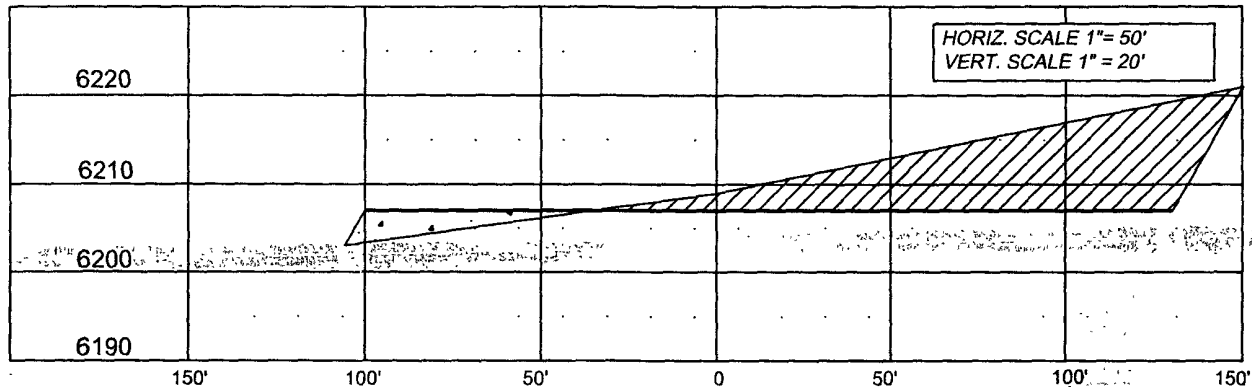
SECTION 1, T-26-N, R-9-W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

ELEV.: 6207 NAVD88

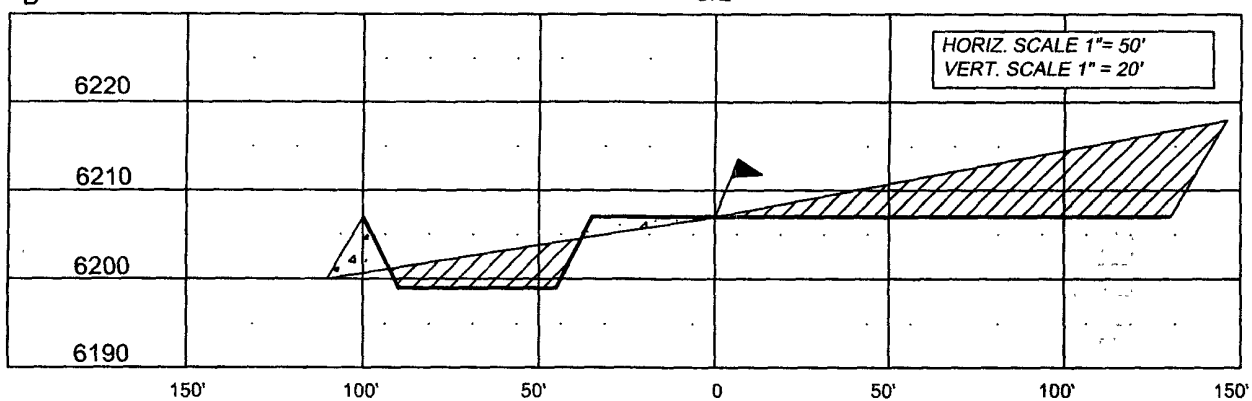
A - A'

C/L



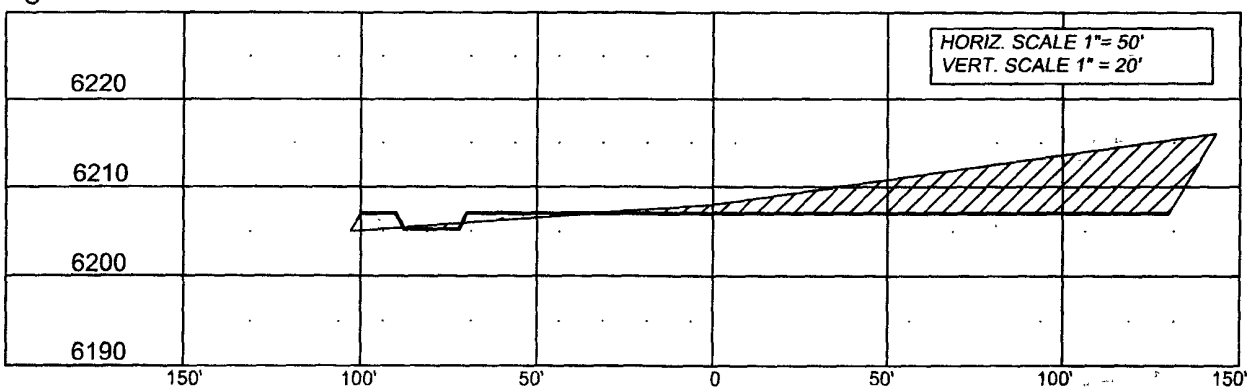
B - B'

C/L



C - C'

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	11/08/07

CCI



CHENAULT CONSULTING INC.

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