

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RCVD JAN 24 '08

OIL CONS. DIV.

DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	RECEIVED JAN 03 2008 Bureau of Land Management Farmington Field Office	5. Lease Number USA SF-078103-B Unit Reporting Number NMNM-78395C-DK
1b. Type of Well GAS		6. If Indian, All. or Tribe
2. Operator BURLINGTON 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	
4. Location of Well Unit B (NWNE), 395' FNL & 1525' FEL Latitude 36.450827 N. Longitude 107.755072 W.	9. Well Number #554	
	10. Field, Pool, Wildcat Basin Dakota	
	11. Sec., Twn, Rge, Mer. (NMPM) B Sec. 35, T26N, R9W API # 30-045-34558	
14. Distance in Miles from Nearest Town 30 Miles/Bloomfield, NM	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 395'		
16. Acres in Lease 800.000	17. Acres Assigned to Well DK 320.00 (E/2)	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 2210' from Huerfano Unit 206/DK		
19. Proposed Depth 6675'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6477' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Jamie Goodwin</u> Jamie Goodwin (Regulatory Technician)	<u>1/3/08</u> Date	

PERMIT NO.

APPROVAL DATE

APPROVED BY [Signature]

TITLE AFM

DATE 1/22/08

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 A

Bond Numbers NMB-000015 and NMB-000089

NMOCD

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

JAN 25 2008

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

A circular professional seal for Henry P. Broadhurst, Jr., a Professional Surveyor in the State of New Mexico. The seal features the text "HENRY P. BROADHURST, JR." around the top inner edge, "STATE OF NEW MEXICO" in the center, and "PROFESSIONAL SURVEYOR" around the bottom inner edge. The license number "11374" is prominently displayed in the center, with the date "1/1/71" written below it. There are handwritten initials "H.P.B." above the license number and a signature "H.P.B." in the upper right corner of the seal.

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

Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO.

30-045-34558

5. Indicate Type of Lease

STATE ☐FEE ☐

6. State Oil & Gas Lease No.

USA - SF - 078103-B

7. Lease Name or Unit Agreement Name

Huerfano Unit

8. Well Number

#554

9. OGRID Number

14538

10. Pool name or Wildcat

Basin Dakota

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 B : 395' feet from the North line and 1525' feet from the East line
Section 35 Township 26N Rng 09W NMPM County San Juan

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

6477'

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

>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

01/03/08

Type or print name

Jamie Goodwin

E-mail address:

goodwinj@conocophillips.com

Telephone No.

505-326-97-84

For State Use Only

APPROVED BY

[Signature]

TITLE

Deputy Oil & Gas Inspector,
District #3

DATE

JAN 25 2008

Conditions of Approval (if any):

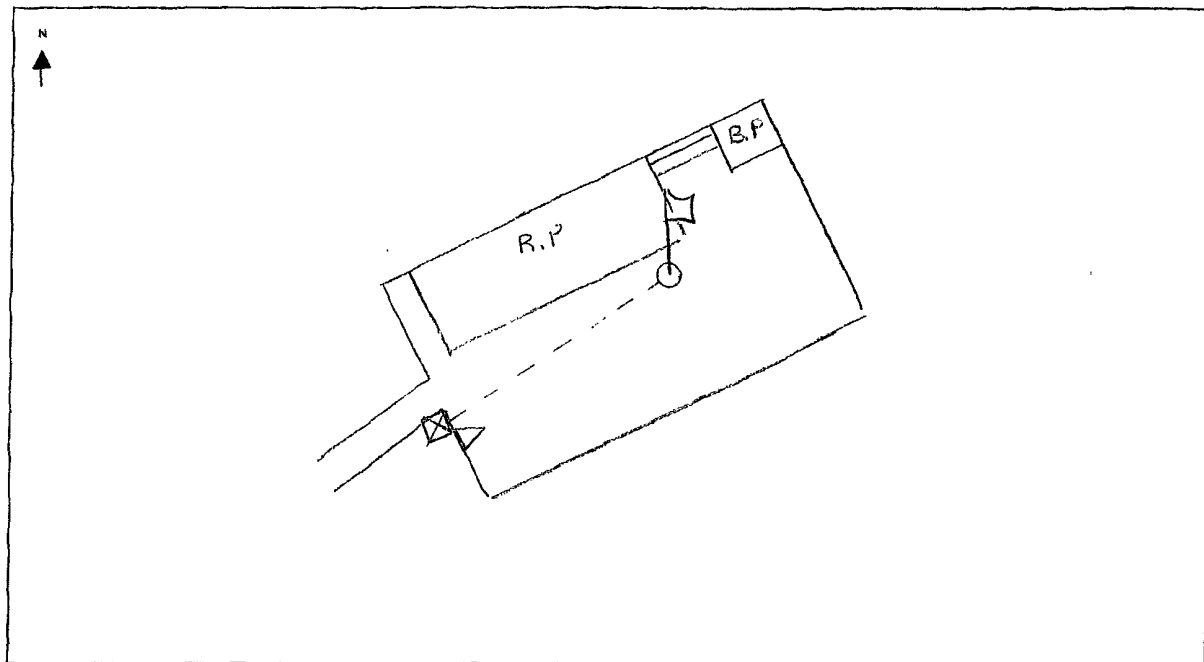


CR 5412 BLOOMFIELD, N.M. 87413
OFFICE: 505-634-0271 CELL: 505-793-6953

CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME Huertano Unit #554 LEGALS B-35-26.9 COUNTY San Juan

PURPOSED C.P. SYSYTEM: Drill GP and set 2 well solas on SW edge of location. Trench
aprox 200' of #3 neg from purposed well to solas



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

COMMENTS: _____

NEAREST POWER SOURCE N/A DISTANCE: _____

PIPELINES IN AREA: N/A

TECHNICIAN: Mike Bluminger DATE: 10/23/07

JP

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HUERFANO UNIT 554

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7265		AFE \$: 523,406.70	
Field Name: hBR_SAN JUAN		Rig: Bearcat Rig 4		State: NM	County: SAN JUAN
Geologist:		Phone:	Geophysicist:		Phone:
Geoscientist: Head, Chip F		Phone: 505-326-9772	Prod. Engineer:		Phone:
Res. Engineer: Prabowo, Wahyu		Phone: 505-326-9797	Proj. Field Lead:		Phone:
Primary Objective (Zones):					
Zone	Zone Name				
FRR	BASIN DAKOTA (PRORATED GAS)				
Location: Sugar					
Datum: Code: NAD 27		Section: 35			
Latitude: 36.450817	Longitude: -107.754458	X:	Y:	Range: 009W	
Footage X: 1525 FEL	Footage Y: 395 FNL	Elevation: 6477	(FT)	Township: 026N	
Tolerance:					
Location Type: Year Round		Start Date (Est.): 1/1/2008		Completion Date:	
Formation Data: Assume KB = 6489		Units = FT			
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT
Total Depth	0	6489	☐		
Surface Casing	320	6169	☐		320' 8 5/8" 24 ppf, J-55, STC casing. Cement with 312 cuft. Circulate cement to surface.
OJO ALAMO	1239	5250	☐		
KIRTLAND	1359	5130	☐		
FRUITLAND	1804	4685	☐		Possible Gas
PICTURED CLIFFS	2044	4445	☐		
LEWIS	2139	4350	☐		
HUERFANITO BENTONITE	2444	4045	☐		
CHACRA	2914	3575	☐		
MASSIVE CLIFF HOUSE	3619	2870	☐		
MENEFEE	3639	2850	☐		
MASSIVE POINT LOOKOUT	4437	2052	☐		GAS
MANCOS	4784	1705	☐		
UPPER GALLUP	5484	1005	☐		
GREENHORN	6354	135	☐		
GRANEROS	6407	82	☐		
TWO WELLS	6435	54	☐	2000	Gas
PAGUATE	6529	-40	☐		
UPPER CUBERO	6595	-106	☐		
LOWER CUBERO	6605	-116	☐		
ENCINAL	6662	-173	☐		
TOTAL DEPTH DK	6675	-186	☐		6-1/4" Hole. 4-1/2", 11.6 ppf, N-80, LTC casing. Cement with 1960 cuft. <i>Circulate Cement to Surface</i>
Reference Wells:					
Reference Type	Well Name		Comments		

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HUERFANO UNIT 554

DEVELOPMENT

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

TD Logs:	☐ Triple Combo	☐ Dipmeter	☐ RFT	☐ Sonic	☐ VSP	☐ TDT	☒ Other
Est bottom perf ~20' above TD.							

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

Comments: Location/Tops/Logging - DKNM026N009W35NE1 There are no exiting wells for any formation in this 1/4 section, prefer B,A,G,H.

Zones - DKNM026N009W35NE1

General/Work Description - DRILLING: LOGS and 85Q Foam Frac for DK zone. (R Wall, RAM Team 6/19/07)

BURLINGTON RESOURCES OIL AND GAS COMPANY LP

HUERFANO UNIT #554

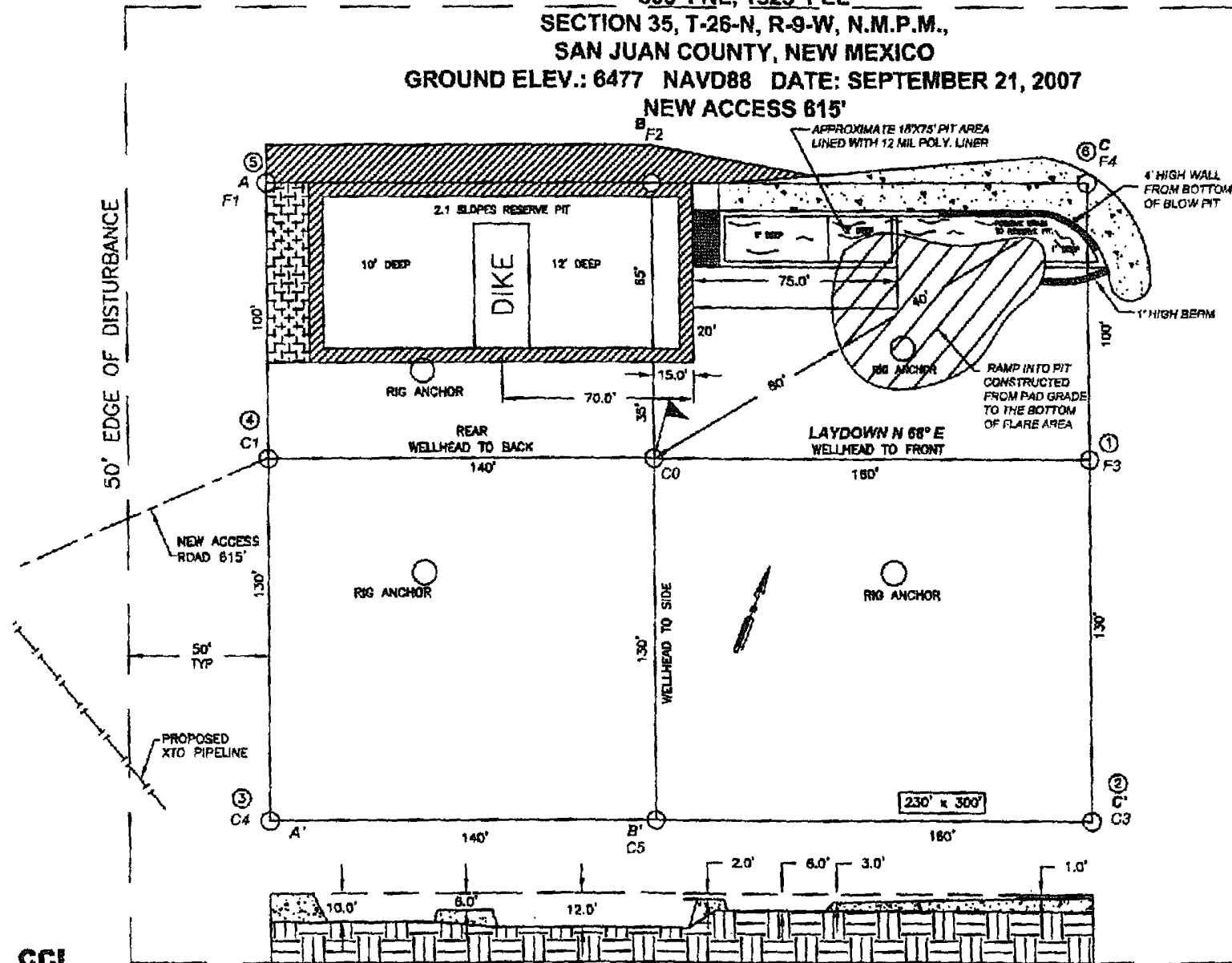
395' FNL, 1525' FEL

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

SAN JUAN COUNTY, NEW MEXICO

GROUND ELEV.: 6477 NAVD88 DATE: SEPTEMBER 21, 2007

NEW ACCESS 815'



CCI

CHENAUT CONSULTING INC.

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

PIT CROSS SECTION

NAD 83 LAT: 38.450827°N / LONG.: 107.755072°W

330' x 400' = 3.030 ACRES

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 SURVEYING.

BURLINGTON RESOURCES OIL AND GAS COMPANY LP

HUERFANO UNIT #554

395' FNL, 1525' FEL

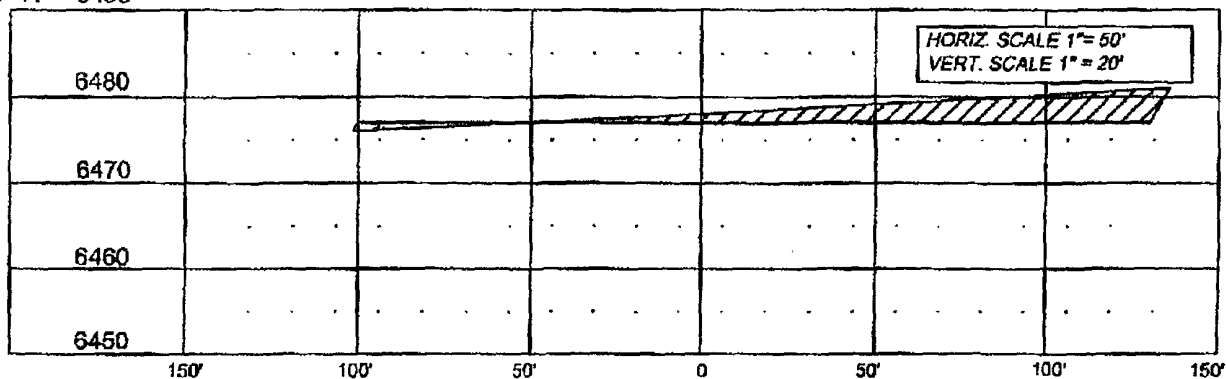
SECTION 35, T-26-N, R-9-W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

ELEV.: 6477 NAVD88

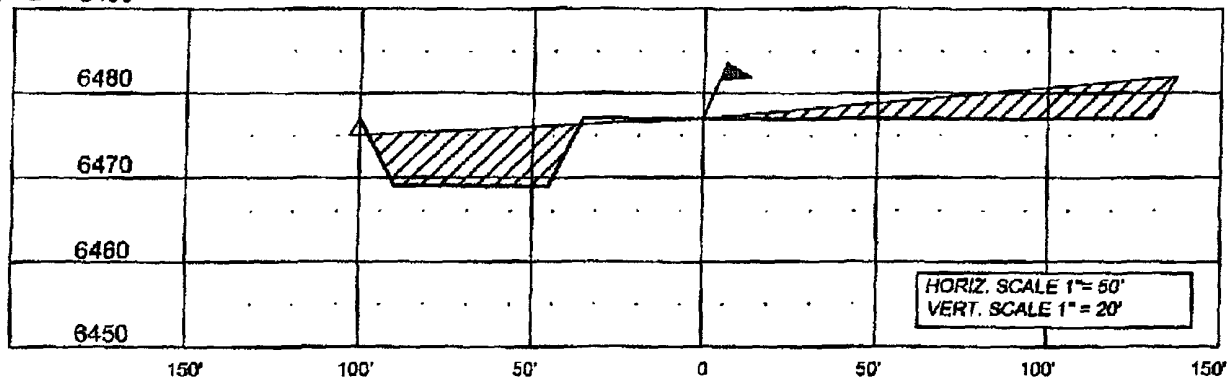
A - A' 6490

C/L



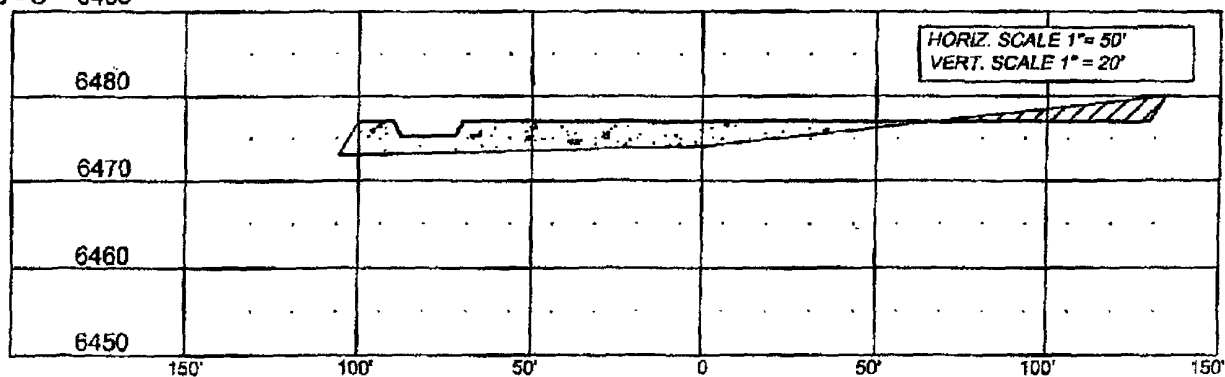
B - B' 6490

C/L



C - C' 6490

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	9/21/07

CCI

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

CHENAULT CONSULTING INC.