


UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RCVD MAR 28 '08
OIL CONS. DIV.
DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	RECEIVED MAR 10 2008	5. Lease Number USA SF-078872-A Unit Reporting Number
1b. Type of Well GAS	Bureau of Land Management Farmington Field Office	6. If Indian, All. or Tribe
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP		7. Unit Agreement Name
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700		8. Farm or Lease Name Frontier B 9. Well Number #3F
4. Location of Well Surf: Unit K(NESW), 2183' FSL & 1982' FWL Surf: Latitude 36.60294° N Longitude 108.01147° W		10. Field, Pool, Wildcat Basin Dakota 11. Sec., Twn, Rge, Mer. (NMPM) K Sec. 4, T27N, R11W API # 30-045-34631
14. Distance in Miles from Nearest Town 8.5 miles/Bloomfield	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1982'		
16. Acres in Lease 2,401.760	17. Acres Assigned to Well 320.70 Acres - (W/2)	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 313' from XTO-Bolack 4 #1-UFC		
19. Proposed Depth 6641'	This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6153' GR	 H2S POTENTIAL EXISTS	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: <u>Crystal Walker</u> Crystal Walker (Regulatory Technician)		3/10/08 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

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

APR 01 2008

NMOCD

MAR 10 2008

DISTRICT I
1825 N. French Dr., Hobbs, N.M. 88240

State of New Mexico Bureau of Land Management
Energy, Minerals & Natural Resources Department
Albuquerque Field Office

Form C-102

Revised October 12, 2005

DISTRICT II
1301 W. Grand Avenue, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

OIL CONSERVATION DIVISION

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

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045- <u>34631</u>	² Pool Code 71599	³ Pool Name BASIN DAKOTA
⁴ Property Code <u>7009 18524</u>	⁵ Property Name FRONTIER B	⁶ Well Number 3 F
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP	⁹ Elevation 6153'

¹⁰ Surface Location

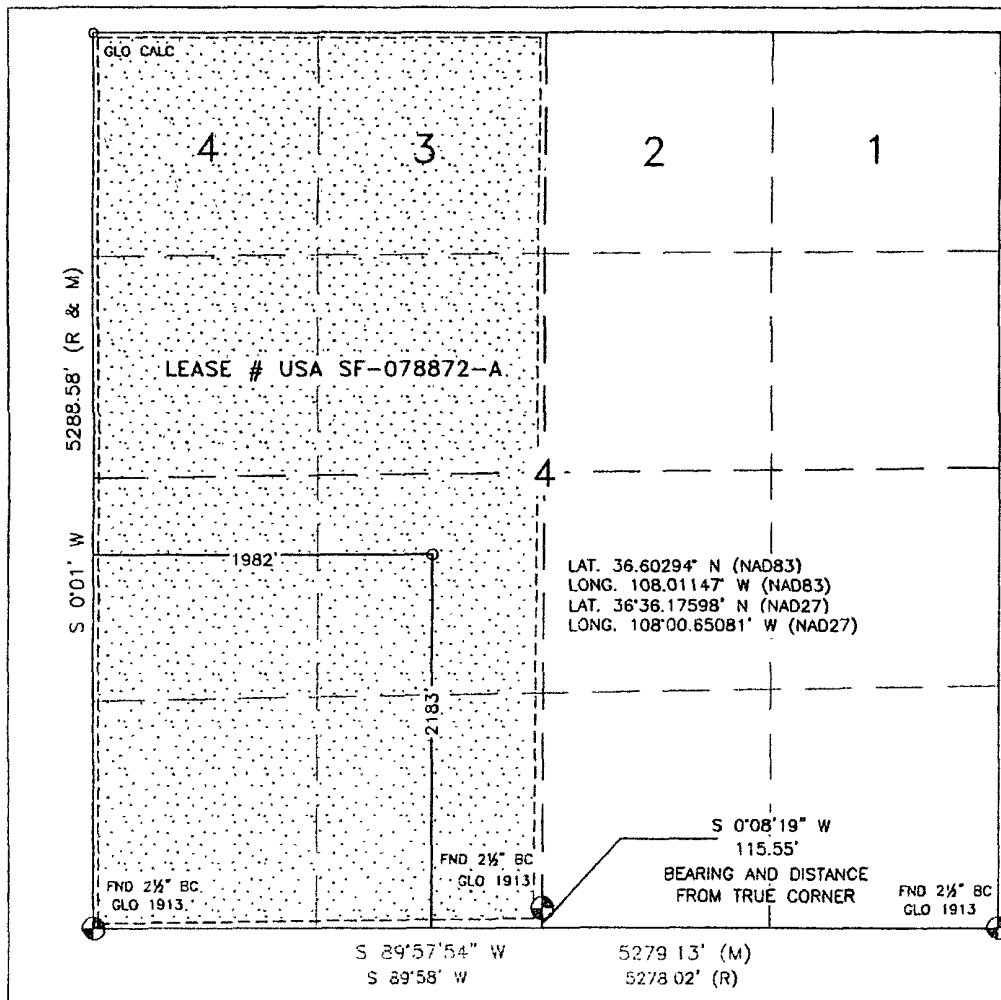
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	4	27N	11W		2183'	SOUTH	1982'	WEST	SAN JUAN

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
K									
¹² Dedicated Acres 320.70 Acres - (W/2)			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

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 or a compulsory pooling order heretofore entered by the division.

Crystal Walker 3/10/08
Signature / Date

Crystal Walker 3-10-08

Printed Name

¹⁸ SURVEYOR CERTIFICATION

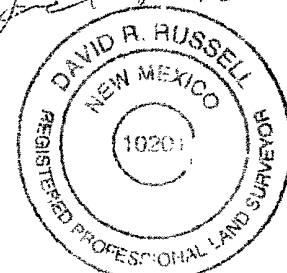
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

JANUARY 18, 2008

Date of Survey

Signature and Seal of Professional Surveyor:

David R. Russell



DAVID RUSSELL

Certificate Number

10201

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- 34631

5. Indicate Type of Lease

STATE ☐FEE ☐

6. State Oil & Gas Lease No.

SF-078872-A

7. Lease Name or Unit Agreement Name

Frontier B

8. Well Number

#3F

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

3. Address of Operator

3401 E. 30TH STREET, FARMINGTON, NM 87402

4. Well Location

Unit Letter M : 1050 feet from the South line and 1020 feet from the West line
Section 4 Township 27B Rng 11W NMPM County San Juan

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

6163' 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

2200
1000'

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

OTHER:

New Drill ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐COMMENCE DRILLING OPNS. ☐CASING/CEMENT JOB ☐ALTERING CASING ☐P AND A ☐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 3/6/2008

Type or print name

Crystal Walker

E-mail address:

crystal.walker@conocophillips.com

Telephone No.

505-326-9837

For State Use Only

APPROVED BY

TITLE

Deputy Oil & Gas Inspector,
District #3

DATE

APR 01 2008

Conditions of Approval (if any):

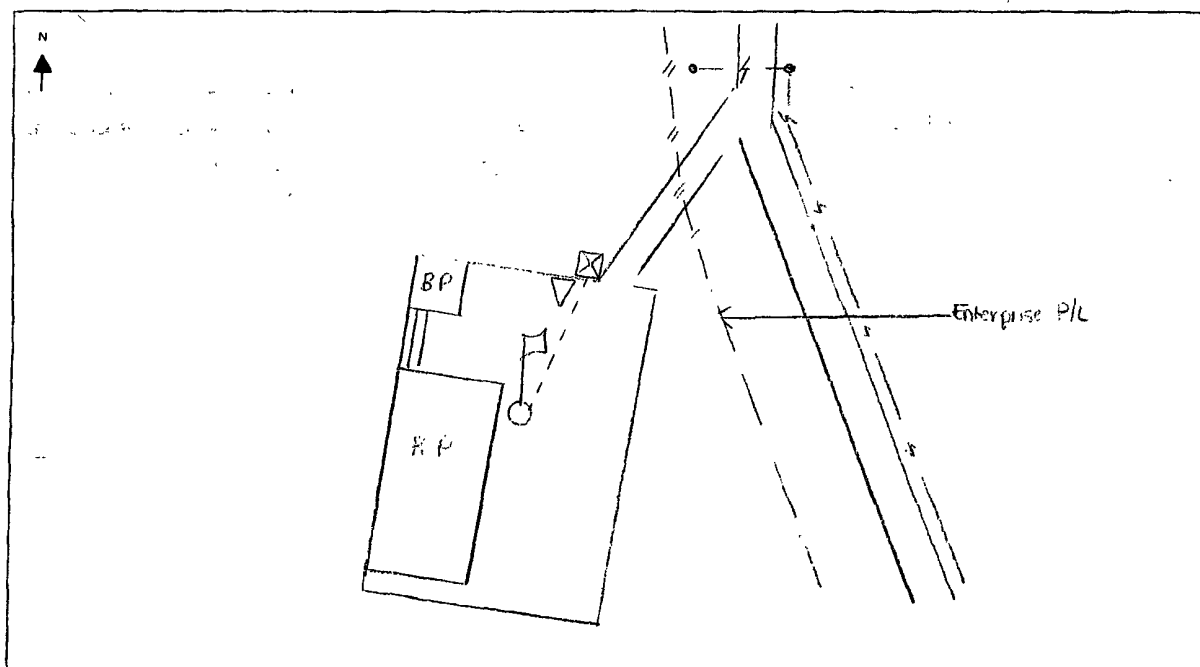


ORIGINAL
DATE: 10/26/07

CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME Frontier B #3F LEGALS M-4-27-11 COUNTY San Juan

PURPOSED C.P. SYSTE~~M~~M: Trench approx 1100' at 58' deep from existing cathodes to
Frontier B #3 to proposed well. Upgrade existing cathodes to Frontier B #3.



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

COMMENTS: _____

NEAREST POWER SOURCE Existing 110' #224-52200 DISTANCE: _____

PIPELINES IN AREA: _____

TECHNICIAN: M. H. H. H. H. H. DATE: 10/26/07

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

P/O Neg
B3

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

FRONTIER B 3F

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7260				AFE \$: 560,990.88	
Field Name: hBR_SAN JUAN		Rig: Bearcat Rig 4		State: NM	County: SAN JUAN		API #:
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: Surface Datum Code: NAD 27							
Latitude: 36.602933		Longitude: -108.010847		X:	Y:	Section: 04	Range: 011W
Footage X: 1982 FWL		Footage Y: 2183 FSL		Elevation: 6153 (FT)		Township: 027N	
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2008		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6165 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	320	5845	<input type="checkbox"/>			12-1/4 hole. 320', 8-5/8" 24 ppf, J-55, STC casing. Cement with 312 cuft. Circulate cement to surface.	
OJO ALAMO	823	5342	<input type="checkbox"/>				
KIRTLAND	910	5255	<input type="checkbox"/>				
FRUITLAND	1471	4694	<input type="checkbox"/>			Possible Gas	
PICTURED CLIFFS	1950	4215	<input type="checkbox"/>				
LEWIS	2191	3974	<input type="checkbox"/>				
HUERFANITO BENTONITE	2456	3709	<input type="checkbox"/>				
CHACRA	2874	3291	<input type="checkbox"/>				
MASSIVE CLIFF HOUSE	3541	2624	<input type="checkbox"/>			Gas	
MENEFEE	3589	2576	<input type="checkbox"/>				
MASSIVE POINT LOOKOUT	4416	1749	<input type="checkbox"/>				
MANCOS	4661	1504	<input type="checkbox"/>				
UPPER GALLUP	5538	627	<input type="checkbox"/>				
GREENHORN	6365	-200	<input type="checkbox"/>				
GRANEROS	6423	-258	<input type="checkbox"/>				
TWO WELLS	6456	-291	<input type="checkbox"/>	624		Gas	
PAGUATE	6532	-367	<input type="checkbox"/>				
CUBERO	6591	-426	<input type="checkbox"/>				
Total Depth	6641	-476	<input type="checkbox"/>			7-7/8" Hole. 4-1/2", 11.6 ppf, N-80, LTC casing. Cement with 1950 cuft. Circulate cement to surface.	
Reference Wells:							
Reference Type	Well Name		Comments				
Production	Frontier B #3		GRF				

PROJECT PROPOSAL - New Drill / Sidetrack

FRONTIER B 3F

DEVELOPMENT

Logging Program:

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

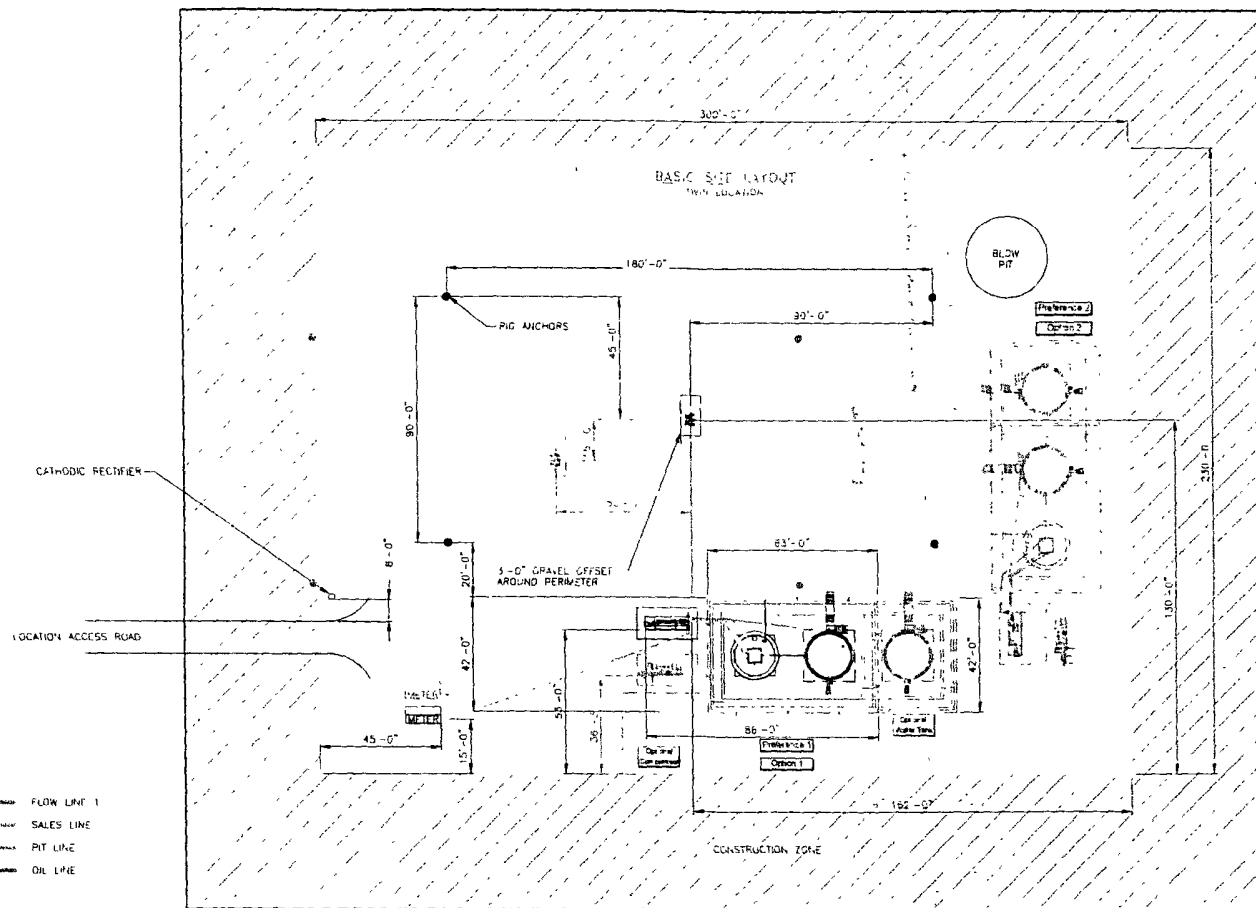
TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other

GR_CBL. Bolt perf 20' above TD. BRCN present.

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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FLOW LINE 1
 SALES LINE
 PIT LINE
 OIL LINE

SEE SHEET 3 & 4 FOR PIPING DETAILS
 ALL UNDERGROUND PIPE IS TO BE BURIED - MIN. OF 3'-0" 10"

SHEET 1 OF 5

ENGINEERING REVIEW										REFERENCE DRAWINGS		<div>CONOCOPhillips</div>		CONOCOPhillips HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT									
<div>DISCIPLINE</div> <div>REVIEWED</div> <div>DATE</div>										<div>NO.</div>	<div>DESCRIPTION</div>												
MATERIALS																							
MECHANICAL																							
PLUMBING																							
ELECTRICAL																							
STRUCTURAL																							
PROJECT																							
DESCRIPTION										DATE	BY	CHK'D	ENC	DISC	FILE	SAN JUAN BUSINESS UNIT		<div>SHEET NO.</div>	<div>SHEET NAME</div>	<div>SHEET DATE</div>	<div>SHEET NO.</div>	<div>SHEET NAME</div>	<div>SHEET DATE</div>
																	HP3PHASE-REV1	11	06/28/2007	11	06/28/2007	11	06/28/2007

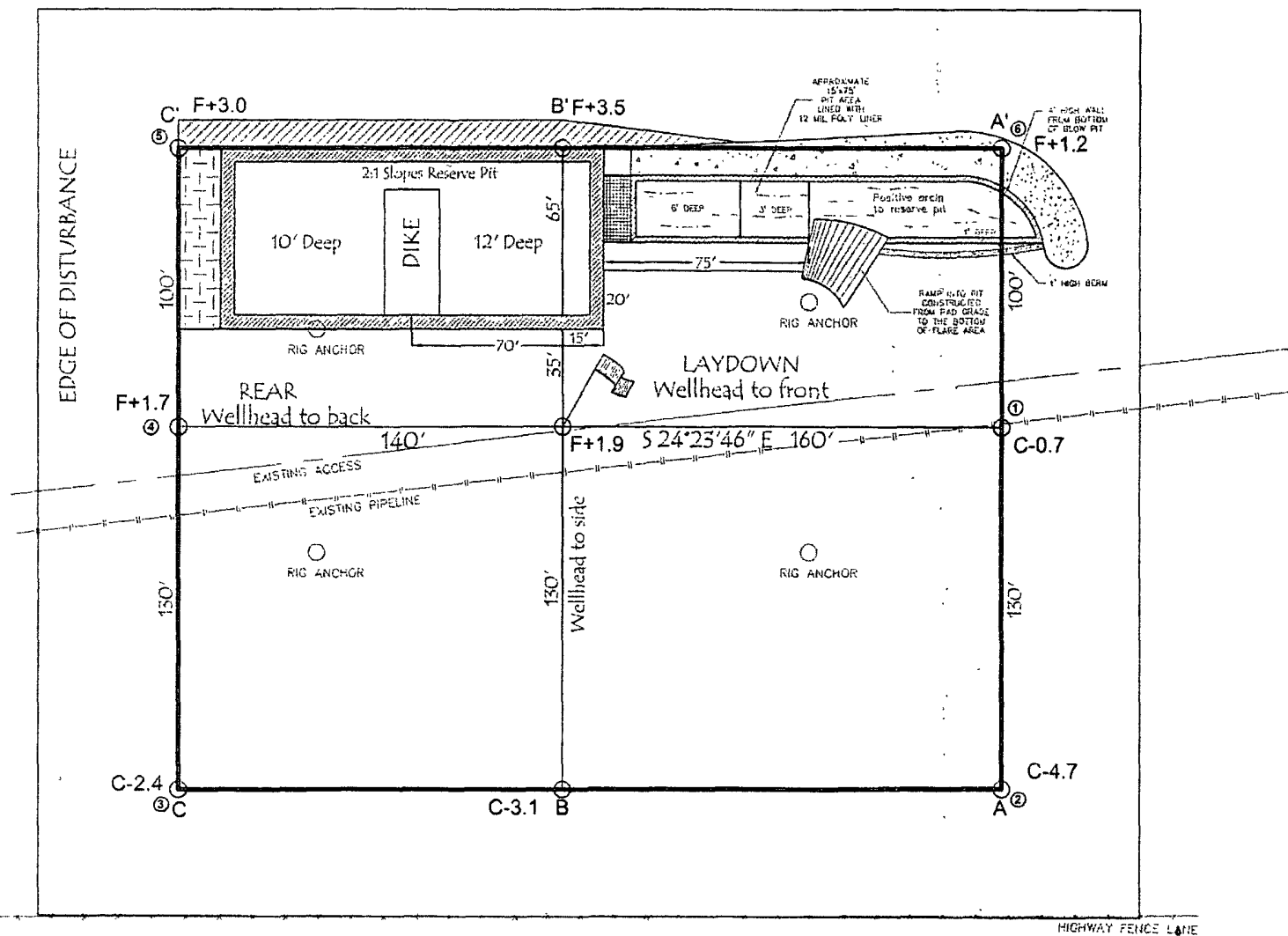
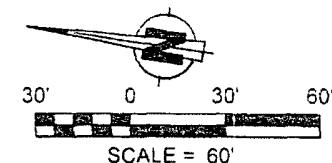
Address: S:\gprb\cbl\Andreas\gprb\cbl\San Juan Location Site Layout.dwg 06/28/2007 - 02:39pm

LATITUDE: 36.60294°N
 LONGITUDE: 108.01147°W
 DATUM: NAD 83

BURLINGTON RESOURCES O&G CO LP

FRONTIER B #3 F
 2183' FSL & 1982' FWL
 LOCATED IN THE NE/4 SW/4 OF SECTION 4,
 T27N, R11W, N M.P.M.
 SAN JUAN COUNTY, NEW MEXICO
 GROUND ELEVATION: 6153', NAVD 88
 FINISHED PAD ELEVATION: 6155.1', NAVD 88

SLOPES TO BE CONSTRUCTED TO
 MATCH THE ORIGINAL CONTOURS
 AS CLOSE AS POSSIBLE.



330' x 400' = 3.03 ACRES OF DISTURBANCE
 SCALE: 1" = 60'
 JOB No.: COPC105
 DATE: 01/28/08

NOTE:
 RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).
 RUSSELL SURVEYING, INC. 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, IN CONSTRUCTION ZONE AND/OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR
 TO CONSTRUCTION.



Russell Surveying
 1409 W. Aztec Blvd. #2
 Aztec, New Mexico 87410
 (505) 334-8637

(505) 334-8637

