

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

|  |   |                 |
|--|---|-----------------|
| 1a. Type of Work<br>DRILL  | 5. Lease Number<br>USA SF-043260-C<br>Unit Reporting Number   |                 |
| 1b. Type of Well<br>GAS  | 6. If Indian, All. or Tribe   |                 |
| 2. Operator<br><b>BURLINGTON</b><br>RESOURCES Oil & Gas Company, LP  | 7. Unit Agreement Name<br>RCVD MAR 20 '08<br>OIL CONS. DIV.   |                 |
| 3. Address & Phone No. of Operator<br>PO Box 4289, Farmington, NM 87499<br><br>(505) 326-9700                                  | 8. Farm or Lease Name<br>Fogelson 4<br>9. Well Number<br>#100   |                 |
| 4. Location of Well<br>Surf: Unit P (SESE), 740' FSL & 1035' FEL<br><br>Surf: Latitude 36.74943° N<br>Longitude 107.99153° W   | 10. Field, Pool, Wildcat<br>Basin Fruitland Coal<br><br>11. Sec., Twn, Rge, Mer. (NMPM)<br>p Sec. 4. T29N, R11W<br><br>API # 30-045-34626 |                 |
| 14. Distance in Miles from Nearest Town<br>47 miles/Bloomfield   | 12. County<br>San Juan  | 13. State<br>NM |
| 15. Distance from Proposed Location to Nearest Property or Lease Line<br>740'  | 17. Acres Assigned to Well<br>305.89 (E/2)  |                 |
| 16. Acres in Lease<br>346.050  | 20. Rotary or Cable Tools<br>Rotary   |                 |
| 18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease<br>435' from Fogelson 4 #1 - DK | 22. Approx. Date Work will Start  |                 |
| 19. Proposed Depth<br>2243'  | 23. Proposed Casing and Cementing Program<br>See Operations Plan attached   |                 |
| 21. Elevations (DF, FT, GR, Etc.)<br>5789' GR  | 24. Authorized by: <u>Crystal Walker</u><br>Crystal Walker (Regulatory Technician)  |                 |



H<sub>2</sub>S POTENTIAL EXIST

3/5/08  
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 2

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

NMOC

MAR 24 2008

AV

NOTIFY AZTEC 24 HRS.  
PRIOR TO CASING & CEMENT

This action is subject to technical and procedural review pursuant to 43 CFR 3165.6 and appeal pursuant to 43 CFR 3165.4

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

RECEIVED

MAR 05 2008

Form C-102

DISTRICT I  
1625 N. French Dr., Hobbs, N.M. 88240State of New Mexico  
Energy, Minerals & Natural Resources Department

Revised October 12, 2005

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

OIL CONSERVATION DIVISION

Bureau of Land Management  
Farmington Field Office

Appropriate District Office

DISTRICT III  
1000 Rio Brazos Rd., Aztec, N.M. 874101220 South St. Francis Dr.  
Santa Fe, NM 87505

State Lease - 4 Copies

Fee Lease - 3 Copies

DISTRICT IV  
1220 South St. Francis Dr., Santa Fe, NM 87505☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

|  |   |  |
|--|---|--|
| <sup>1</sup> API Number<br>X 30-045- 34626 | <sup>2</sup> Pool Code<br>71629   | <sup>3</sup> Pool Name<br>BASIN FRUITLAND COAL |
| <sup>4</sup> Property Code<br>7026         | <sup>5</sup> Property Name<br>FOGELSON 4                                | <sup>6</sup> Well Number<br>100                |
| <sup>7</sup> GRID No.<br>14538             | <sup>8</sup> Operator Name<br>BURLINGTON RESOURCES OIL & GAS COMPANY LP | <sup>9</sup> Elevation<br>5789                 |

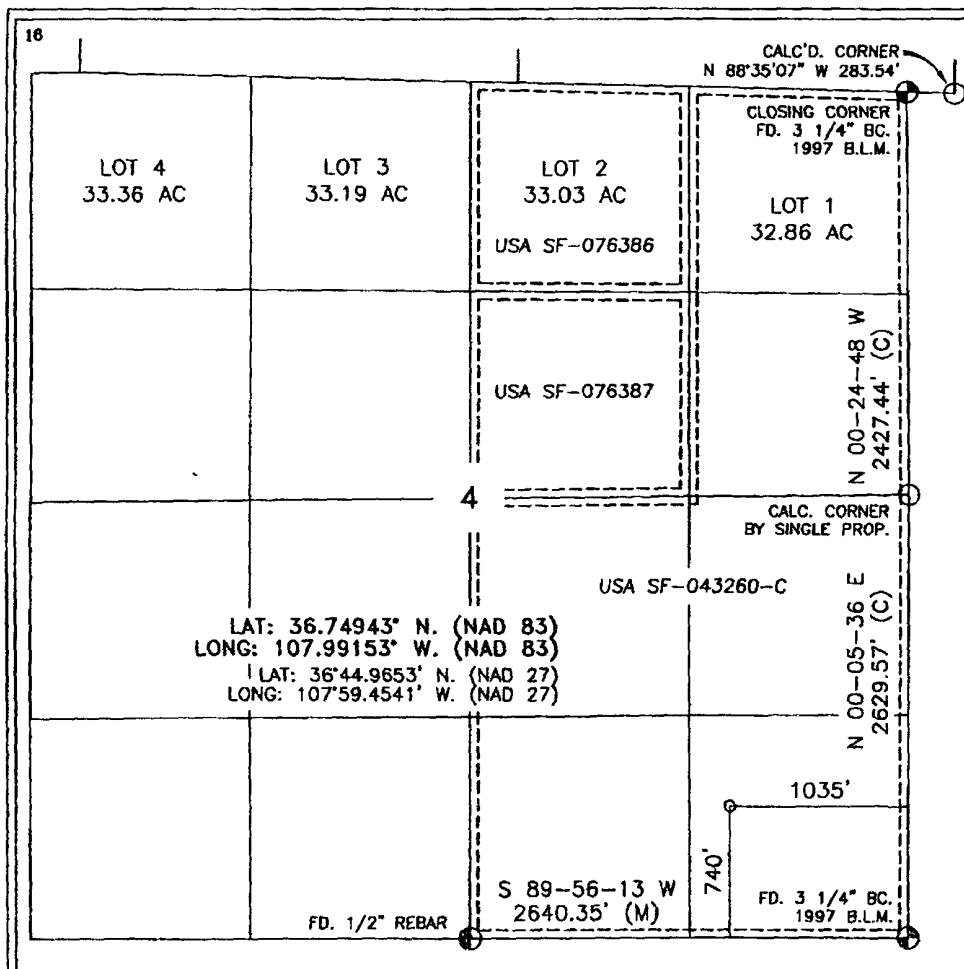
<sup>10</sup> Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County   |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|----------|
| P             | 4       | 29-N     | 11-W  |         | 740           | SOUTH            | 1035          | 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 |
|---|---------|----------|-------------------------------|---------|----------------------------------|------------------|-------------------------|----------------|--------|
| P   |         |          |                               |         |                                  |                  |                         |                |        |
| <sup>12</sup> Dedicated Acres<br>305.89 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



## 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.

*Sasha Spangler* 11-27-07  
Signature Date  
Sasha Spangler  
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.

OCTOBER 19 2007  
Date of Survey  
Signature and Seal of Professional Surveyor:  
*[Signature]*  
REGISTERED PROFESSIONAL LAND SURVEYOR  
Certificate Number

## 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.

30-045-346210

5. Indicate Type of Lease

STATE ☒FEE ☐

6. State Oil &amp; Gas Lease No.

SF-043260-C

7. Lease Name or Unit Agreement Name

Fogelson 4

8. Well Number

#100

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 P : 740 feet from the South line and 1035 feet from the East line  
 Section 4 Township 29N Rng 11W NMPM County San Juan

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

5789' GR

Pit or Below-grade Tank Application

☐ or Closure ☐

Pit type

New Drill

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

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 ☒

## 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

TITLE

Regulatory Technician

DATE

2/21/2008

Type or print name

Crystal Walker

E-mail address:

crystal.walker@conocophillips.com

Telephone No.

505-326-9837

For State Use Only

Deputy Oil & Gas Inspector,  
District #3

APPROVED BY

TITLE

DATE

MAR 24 2008

Conditions of Approval (if any):

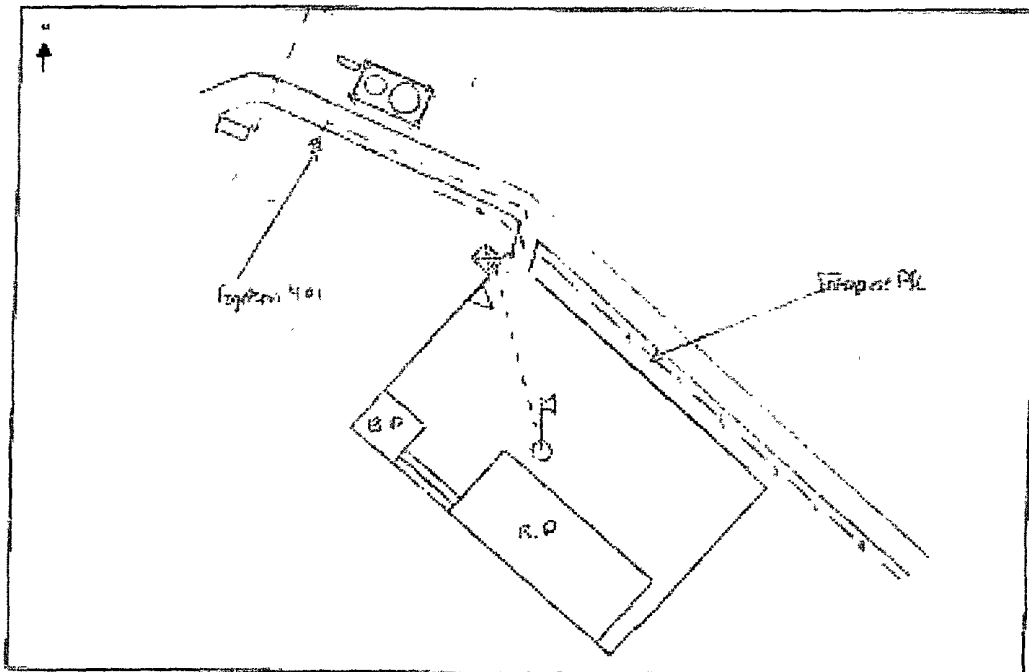


**TECHNICAL SERVICES**  
A CORROSION COMPANY

### CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME Exxon 4 PIDO LEGALS P-9-29-11 COUNTY Santa Tula

PURPOSED C.P. SYSTEM: Build up and set 9 well isolator on Al corner at location  
Top of corner 400' of 2" line from purpose well to isolate. This system will allow  
more drilling operations on 2" line.



| RAILROAD WHEELS | METER HOUSE | C.P. | ANODE HOUSE | WELL | NEW WELL | CARRIAGE AC |
|-----------------|-------------|------|-------------|------|----------|-------------|
|                 |             |      |             |      |          |             |

COMMENTS: \_\_\_\_\_

NEAREST POWER SOURCE N/A DISTANCE: \_\_\_\_\_

PIPELINES IN AREA: Exxon 401

TECHNICIAN: John H. Long DATE: 10/10/02

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

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

FOGELSON 4 100

DEVELOPMENT

|                               |  |                        |  |                    |                  |
|-------------------------------|--|------------------------|--|--------------------|------------------|
| Lease:                        |  | AFE #: WAN.CDR.7308    |  | AFE \$: 197,039.93 |                  |
| Field Name: hBR_SAN JUAN      |  | Rig: XXX 2009 Shallow  |  | 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:  |                  |
|                               |  |                        |  | Phone:             |                  |

## Primary Objective (Zones):

| Zone | Zone Name                  |
|------|----------------------------|
| JCV  | BASIN FRUITLAND COAL (GAS) |

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

|                     |                        |                 |      |                |             |
|---------------------|------------------------|-----------------|------|----------------|-------------|
| Latitude: 36.749425 | Longitude: -107.990907 | X:              | Y:   | Section: 04    | Range: 011W |
| Footage X: 1035 FEL | Footage Y: 740 FSL     | Elevation: 5789 | (FT) | Township: 029N |             |
| Tolerance:          |                        |                 |      |                |             |

|   |                             |                  |                    |
|---|-----------------------------|------------------|--------------------|
| Location Type: Year Round                   | Start Date (Est.): 1/1/2009 | Completion Date: | Date In Operation: |
| Formation Data: Assume KB = 5801 Units = FT |                             |                  |                    |

| Formation Call & Casing Points | Depth (TVD in Ft) | SS (Ft) | Depletion (Yes/No)       | BHP (PSIG) | BHT | Remarks  |
|--------------------------------|-------------------|---------|--------------------------|------------|-----|--|
| Surface Casing                 | 120               | 5681    | <input type="checkbox"/> |            |     | 8-3/4 hole. 7" 20 ppf, J-55 STC csg. Cement with 50 cuft. Circulate cement to surface.             |
| OJO ALAMO                      | 722               | 5079    | <input type="checkbox"/> |            |     |  |
| KIRTLAND                       | 864               | 4937    | <input type="checkbox"/> |            |     |  |
| FRUITLAND                      | 1661              | 4140    | <input type="checkbox"/> | 300        | Gas |  |
| FRUITLAND COAL                 | 1801              | 4000    | <input type="checkbox"/> |            |     |  |
| PICTURED CLIFFS                | 2043              | 3758    | <input type="checkbox"/> |            | Gas |  |
| Total Depth                    | 2243              | 3558    | <input type="checkbox"/> |            |     | 6-1/4" hole. 4-1/2" 10.5 ppf, J-55, STC casing. Cement with 345 cuft. Circulate cement to surface. |

## Reference Wells:

| Reference Type | Well Name | Comments |
|----------------|-----------|----------|
|----------------|-----------|----------|

## Logging Program:

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

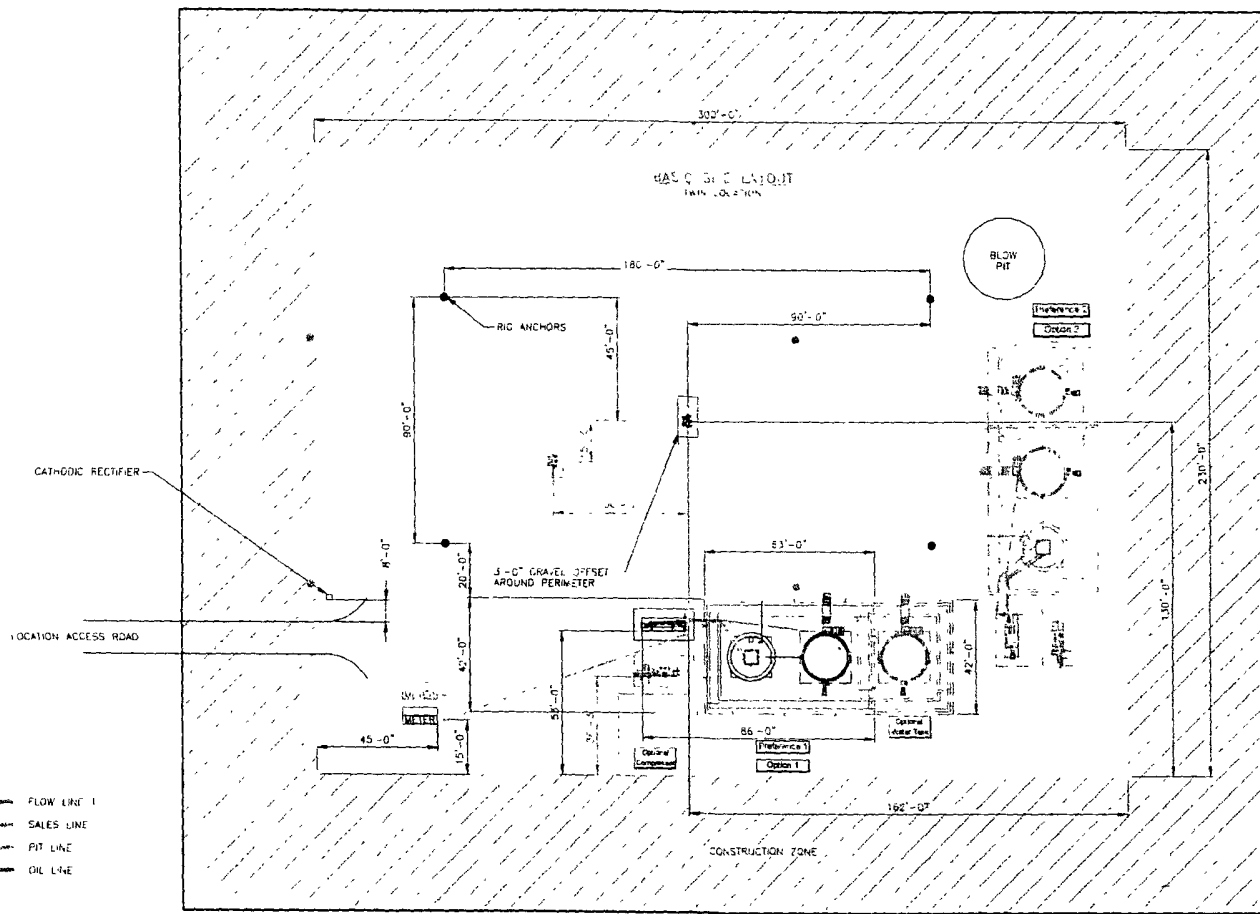
TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other

GR\_CBL with density to identify coal versus sand in Fruitland.

## Additional Information:

| Log Type | Stage | From (Ft) | To (Ft) | Tool Type/Name | Remarks |
|----------|-------|-----------|---------|----------------|---------|
|----------|-------|-----------|---------|----------------|---------|


Comments



FLOW LINE 1  
 SALES LINE  
 PIT LINE  
 OIL LINE

SEE SHEET 1 & 2 FOR PARKING DETAILS  
 ALL UNDERGROUND PIPE IS TO BE BURIED A MIN. OF 3'-0" TO 4'-0"

SHEET 1 OF 5

|            |  |  |  |  |  |  |  |  |  |                    |         |       |                    |             |   |   |              |            |               |               |                   |
|------------|--|--|--|--|--|--|--|--|--|--------------------|---------|-------|--------------------|-------------|---|---|--------------|------------|---------------|---------------|-------------------|
|            |  |  |  |  |  |  |  |  |  | ENGINEERING REVIEW |         |       | REFERENCE DRAWINGS |             |  | CONOCO PHILLIPS<br>HIGH PRESSURE 3 PHASE<br>FACILITY DIAGRAM- SITE LAYOUT |              |            |               |               |                   |
|            |  |  |  |  |  |  |  |  |  | DESCRIPTION        | REMARKS | DATE  | NO.                | DESCRIPTION |   | CLIENT NO.  | CLIENT ADDR. | SHEET DATE |               |               |                   |
|            |  |  |  |  |  |  |  |  |  | PROCESS            |         |       |                    |             |   |   |              |            |               |               |                   |
|            |  |  |  |  |  |  |  |  |  | MECHANICAL         |         |       |                    |             |   |   |              |            |               |               |                   |
|            |  |  |  |  |  |  |  |  |  | PIPING             |         |       |                    |             |   |   |              |            |               |               |                   |
|            |  |  |  |  |  |  |  |  |  | ELECTRICAL         |         |       |                    |             |   |   |              |            |               |               |                   |
|            |  |  |  |  |  |  |  |  |  | I & C              |         |       |                    |             |   |   |              |            |               |               |                   |
|            |  |  |  |  |  |  |  |  |  | HAZ/STRUCTURAL     |         |       |                    |             |   |   |              |            |               |               |                   |
|            |  |  |  |  |  |  |  |  |  | PROJECT            |         |       |                    |             |   |   |              |            |               |               |                   |
| DESIGN NO. |  |  |  |  |  |  |  |  |  | DATE               | BY      | CHK'D | ENG                | QVC         | PA  | SAN JUAN BUSINESS UNIT  |              |            | CLIENT NO.    | CLIENT ADDR.  | SHEET DATE        |
|            |  |  |  |  |  |  |  |  |  |                    |         |       |                    |             |   |   |              |            | SCALE         | REVISION DATE |                   |
|            |  |  |  |  |  |  |  |  |  |                    |         |       |                    |             |   |   |              |            | HP3PHASE-REV1 |               | SHEET NO. 11 OF 5 |

SAN JUAN BUSINESS UNIT

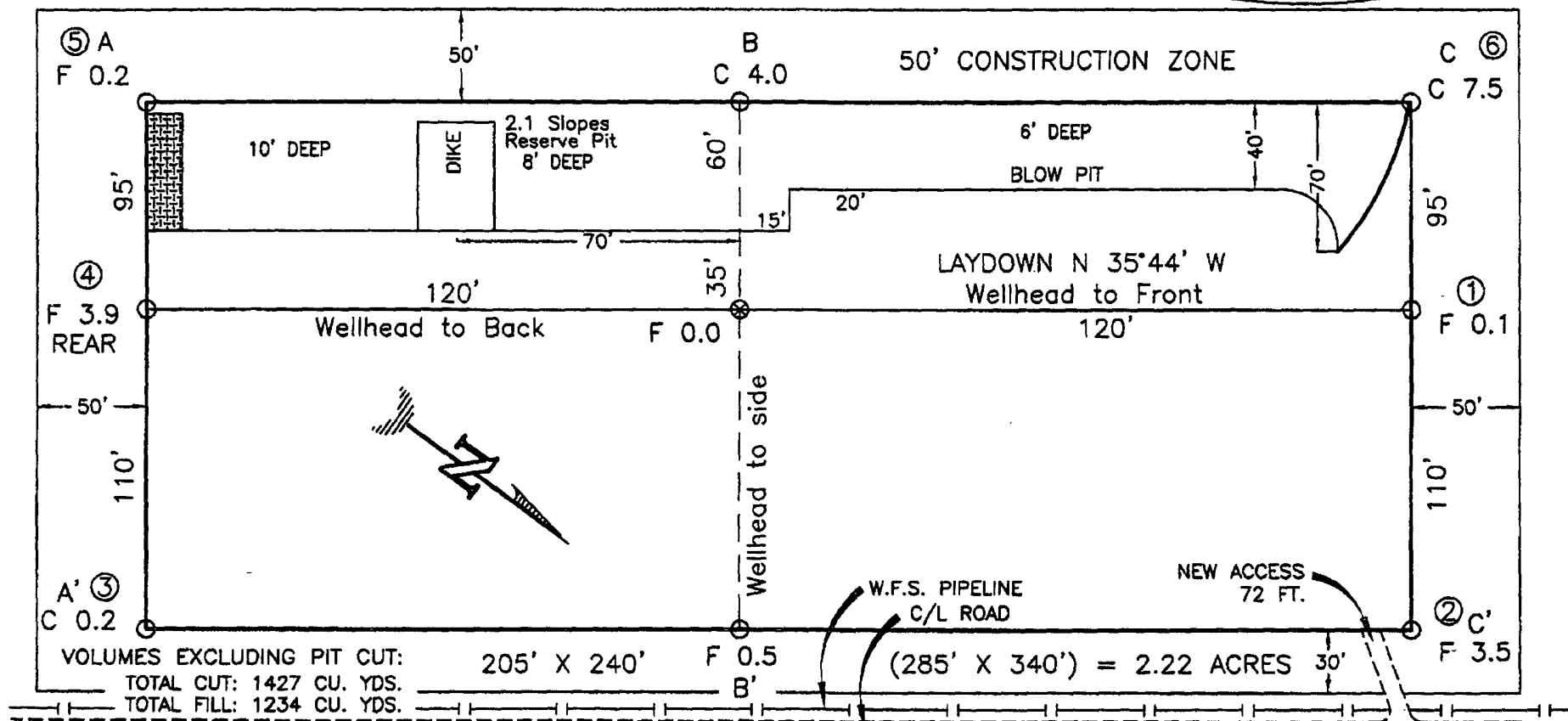
# BURLINGTON RESOURCES OIL & GAS COMPANY LP

FOGELSON 4 No. 100, 740 FSL 1035 FEL

SECTION 4, T-29-N, R-11-W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO

GROUND ELEVATION: 5789, DATE: OCTOBER 12, 2007

NAD 83  
LAT. = 36.74943° N.  
LONG. = 107.99153° W.  
NAD 27  
LAT. = 36°44.9653' N.  
LONG. = 107°59.4541' W.



RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).  
BLOW PIT: OVERFLOW PIPE HALFWAY BETWEEN TOP AND BOTTOM AND TO EXTEND OVER PLASTIC LINER AND INTO BLOW PIT.

## NOTE:


DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. UTILITY NOTIFICATION CENTER OF COLORADO TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.

## NOTE:

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.

## NOTE:

ESTIMATED VOLUMES CALCULATED BY AVERAGE END AREA AT CROSS-SECTION SHOWN

| REVISION  | DATE          | REVISION BY |
|---|---------------|-------------|
|  <b>Daggett Enterprises, Inc.</b><br>Surveying and Oil Field Services<br>P. O. Box 510 • Farmington, NM 87499<br>Phone (505) 326-1772 • Fax (505) 326-6019<br>NEW MEXICO L.S. 8894 |               |             |
| DESIGN BY C.V.  | CHECKED BR993 |             |
| DATE: 11/06/07  |               |             |

# BURLINGTON RESOURCES OIL & GAS COMPANY LP

FOGELSON 4 No. 100, 740 FSL 1035 FEL

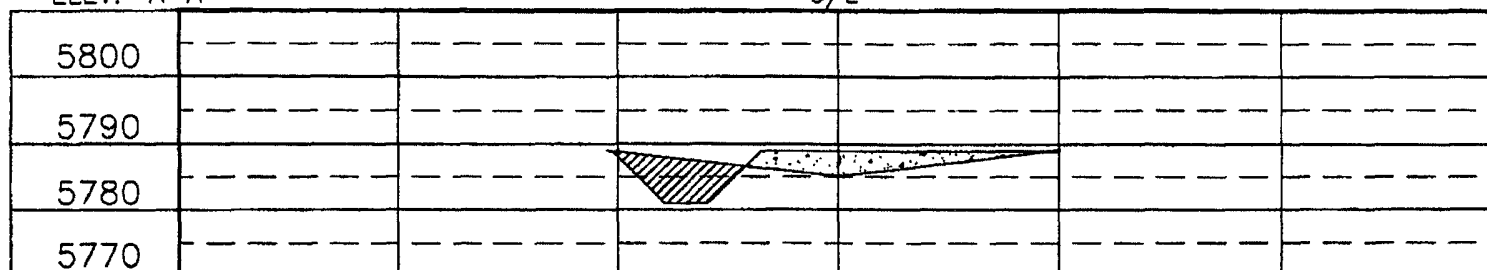
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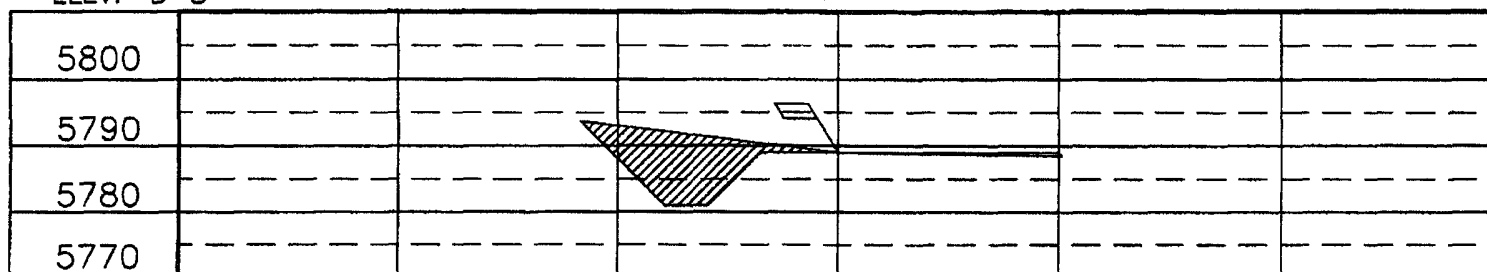
ELEV. A-A'

C/L



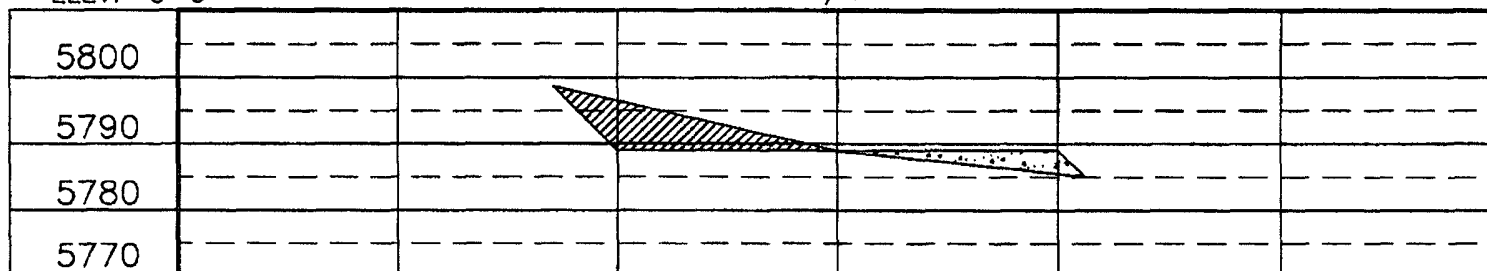
ELEV. B-B'

C/L



ELEV. C-C'

C/L




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|   |                    |             |
|---|--------------------|-------------|
| REVISION:   | DATE:              | REVISED BY: |
|  <b>Daggett Enterprises, Inc.</b><br>Surveying and Oil Field Services<br>P. O. Box 510 • Farmington, NM 87499<br>Phone (505) 326-1772 • Fax (505) 326-6019<br>NEW MEXICO L.S. 8894 |                    |             |
| DRAWN BY: G.V.  | CADFILE: BR695_CFB |             |
| REVISED BY: BR695   | DATE: 11/08/07     |             |