

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RCVD FEB 29 '08

OIL CONS. DIV.

DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	RECEIVED FEB 05 2008 Bureau of Land Management Farmington Field Office	5. Lease Number USA SF-078463-A 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 Lea Federal
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700		8. Farm or Lease Name 9. Well Number #100S
4. Location of Well Unit C(NENW), 810' FNL & 1730' FWL Latitude 36.86128 N. Longitude 108.19516 W.		10. Field, Pool, Wildcat Basin Fruitland Coal 11. Sec., Twn, Rge, Mer. (NMPM) C Sec. 34, T31N, R13W API # 30-045-34593
14. Distance in Miles from Nearest Town Farmington/10.4 Miles	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 810'		
16. Acres in Lease 1163.430	17. Acres Assigned to Well 320.00 (W/2)	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 52' from Lea Federal A 1E		
19. Proposed Depth 1941'	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.) 5624' 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: <u>Jamie Goodwin</u> Jamie Goodwin (Regulatory Technician)		<u>2/4/08</u> Date

PERMIT NO.

APPROVAL DATE

APPROVED BY D. Marking

TITLE AFM

DATE 2/28/08

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 2 Bond Numbers NMB-000015 and NMB-000089

HOLD C104 FOR Change in status to Lea Fed. #1E, cancel TA, in Basin F.C.



H₂S POTENTIAL EXIST

MAR 03 2008

NMOC

NOTIFY AGENCIES 24 HRS.
PRIOR TO CASING & CEMENT

DISTRICT I
1625 N. Francis Dr., Hobbs, N.M. 88240

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

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

DISTRICT IV
1220 South 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

FEB 05 2008

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

Bureau of Land Management
Farmington Field Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-045-34593		2 Pool Code 71629		3 Pool Name BASIN FRUITLAND COAL		
4 Property Code 7253		5 Property Name LEA FEDERAL			6 Well Number 100S	
7 OGRID No. 14538		8 Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP			9 Elevation 5624'	

10 Surface Location

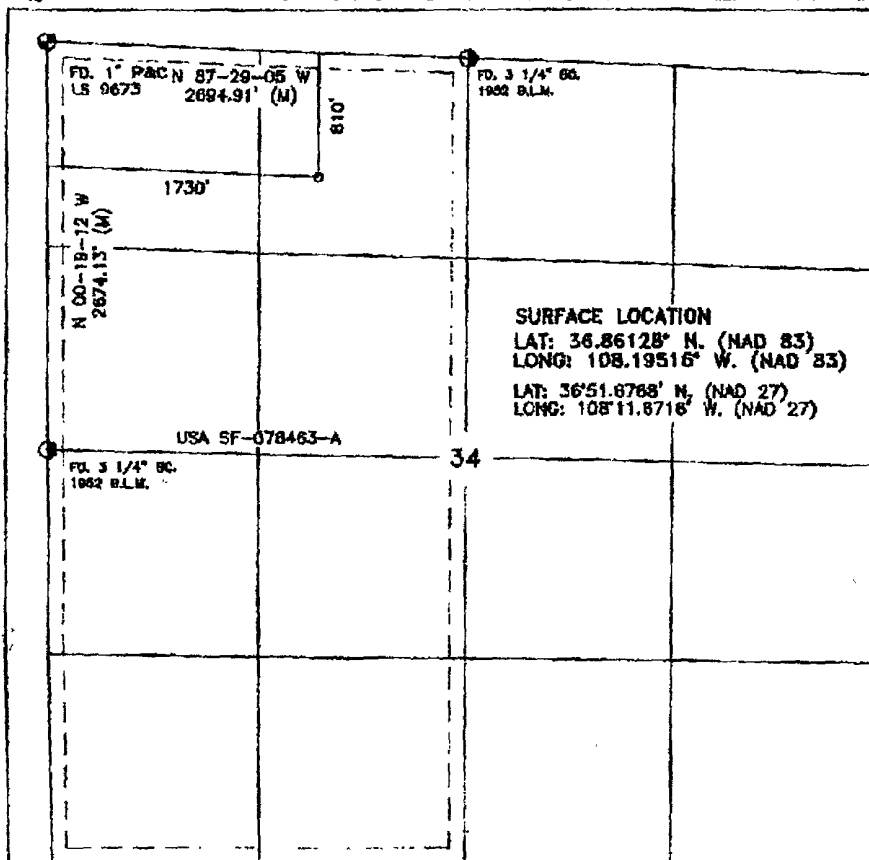
UL or lot no. C	Section 34	Township 31-N	Range 13-W	Lot Idn	Feet from the 810	North/South line NORTH	Feet from the 1730	East/West line WEST	County SAN JUAN
--------------------	---------------	------------------	---------------	---------	----------------------	---------------------------	-----------------------	------------------------	--------------------

11 Bottom Hole Location If Different From Surface

UL or lot no. C	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acres 320 AC \ 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

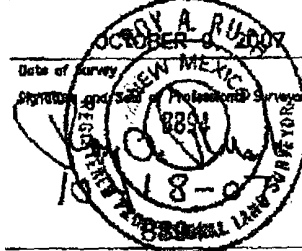
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Rhonda Rogers 10-24-07
Signature Date

Rhonda Rogers

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.



Certificate Number

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- 34593
5. Indicate Type of Lease	STATE <input type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.	USA SF-078463-A
7. Lease Name or Unit Agreement Name	Lea Federal
8. Well Number	100S
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 & GAS COMPANY LP

3. Address of Operator
3401 E. 30TH STREET, FARMINGTON, NM 87402

4. Well Location
Unit Letter C : 810' feet from the North line and 1730' feet from the West line
Section 34 Township 31N Rng 13W NMPM County San Juan

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
5624'

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 and an associated vent/flare pit. Based on Burlington's interpretation of the Ecosphere's risk ranking criteria, the new drilling pit will be a lined pit 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 1/24/2008

Type or print name Sasha Spangler E-mail address: spangsa@conocophillips.com Telephone No. 505-326-9568

For State Use Only

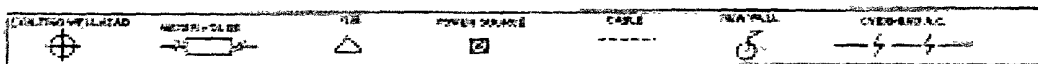
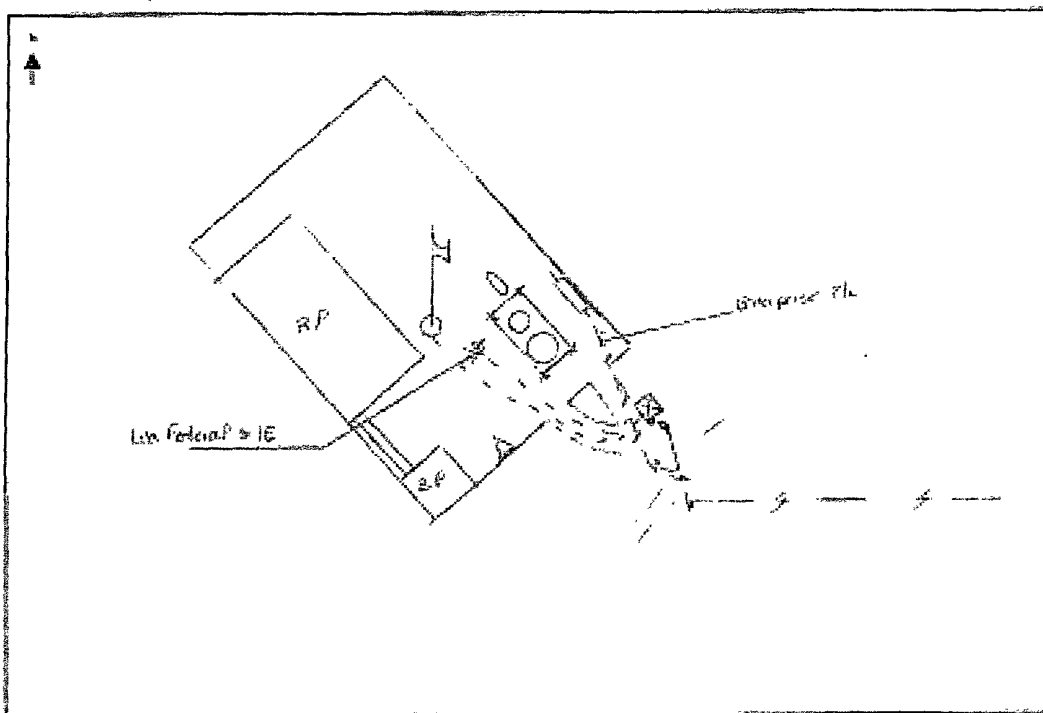
APPROVED BY [Signature] TITLE Deputy Oil & Gas Inspector, District #3 DATE MAR 03 2008

Conditions of Approval (if any):



WELL NAME Los Federal #1005 LEGALS A-34-31-13 COUNTY San Juan

PURPOSED C.P. SYSTEM: Records drilling activities and drill core SR on site of the location. Topographic map of the area from company will be provided. Referenced page to the file is attached.



COMMENTS:

NEAREST POWER SOURCE: Eastern Dist. Gen Island #16 DISTANCE: more than 100 mi
PIPELINES IN AREA: Exxon - P/L

TECHNICIAN: Harold H. Brown DATE: 11/7/67

6 CR 5412 BLOOMFIELD, N.M. 87413
OFFICE: 505-834-0271 CELL: 505-793-8953

44

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

LEA FEDERAL 100S

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7384		AFE \$: 181,986.37	
Field Name: hBR_SAN JUAN		Rig: Aztec Rig 580		State: NM	County: SAN JUAN
Geologist:		Phone:	Geophysicist:		Phone:
Geoscientist: Clark, Dave D		Phone: 505-326-9762	Prod. Engineer:		Phone:
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: Datum Code: NAD 27

Latitude: 36.861279	Longitude: -108.194529	X:	Y:	Section: 34	Range: 013W
Footage X: 1730 FWL	Footage Y: 810 FNL	Elevation: 5624	(FT)	Township: 031N	

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

Formation Data:	Assume KB = 5636	Units = FT
-----------------	------------------	------------

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	120	5516	<input type="checkbox"/>			8-3/4 hole. 7" 20 ppf, J-55 STC csg. Cement with 50 cuft. Circulate cement to surface.
OJO ALAMO	721	4915	<input type="checkbox"/>			
KIRTLAND	801	4835	<input type="checkbox"/>			
FRUITLAND	1348	4288	<input type="checkbox"/>			Gas
PICTURED CLIFFS	1741	3895	<input type="checkbox"/>	200		Gas
Total Depth	1941	3695	<input type="checkbox"/>			6-1/4" hole. 4-1/2" 10.5 ppf, J-55, STC casing. Cement with 298 cuft. Circulate cement to surface.

Reference Wells:

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

Logging Program:

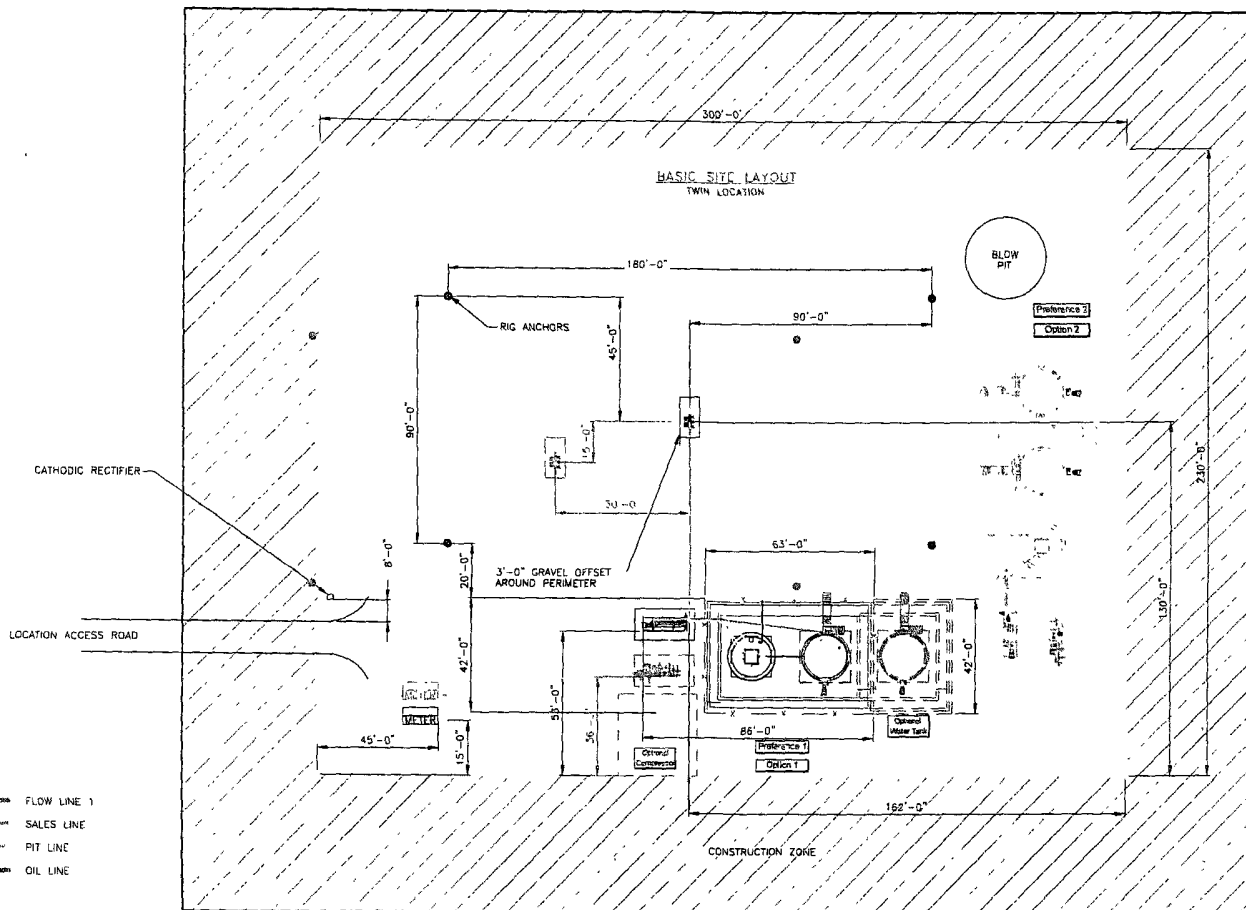
Intermediate Logs: ☐ Log only if show ☐ GR/ILD ☐ Triple Combo

TD Logs:	<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
----------	-------	-----------	---------	----------------	---------



FLOW LINE 1
 SALES LINE
 PIT LINE
 OIL LINE

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

SHEET 1 OF 5

										ENGINEERING REVIEW			REFERENCE DRAWINGS		<div></div> <div>HIGH PRESSURE 3 PHASE FACILITY DIAGRAM - SITE LAYOUT</div>							
										DISCIPLINE	REVIEWED	DATE	FIG	DESCRIPTION								
										PROCESS						SAN JUAN BUSINESS UNIT			CLIENT APPR.	SCALE: NONE	APPR. DATE	
										MECHANICAL									DRAWN BY		CREATION DATE: 6/20/07	
										PIPING												
										ELECTRICAL												
										I & C												
										CIVIL/STRUCTURAL												
										PROJECT												
										DESCRIPTION	DATE	BY	CHK'D	ENG	DISC	PRJ.						

h:\projects\SanJuan\Regulatory\San Juan Location Site Layout.dwg, 06/28/2007 - 06:39pm

BURLINGTON RESOURCES OIL & GAS COMPANY LP

LEA FEDERAL No. 100S, 810 FNL 1730 FWL

SECTION 34, T-31-N, R-13-W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO

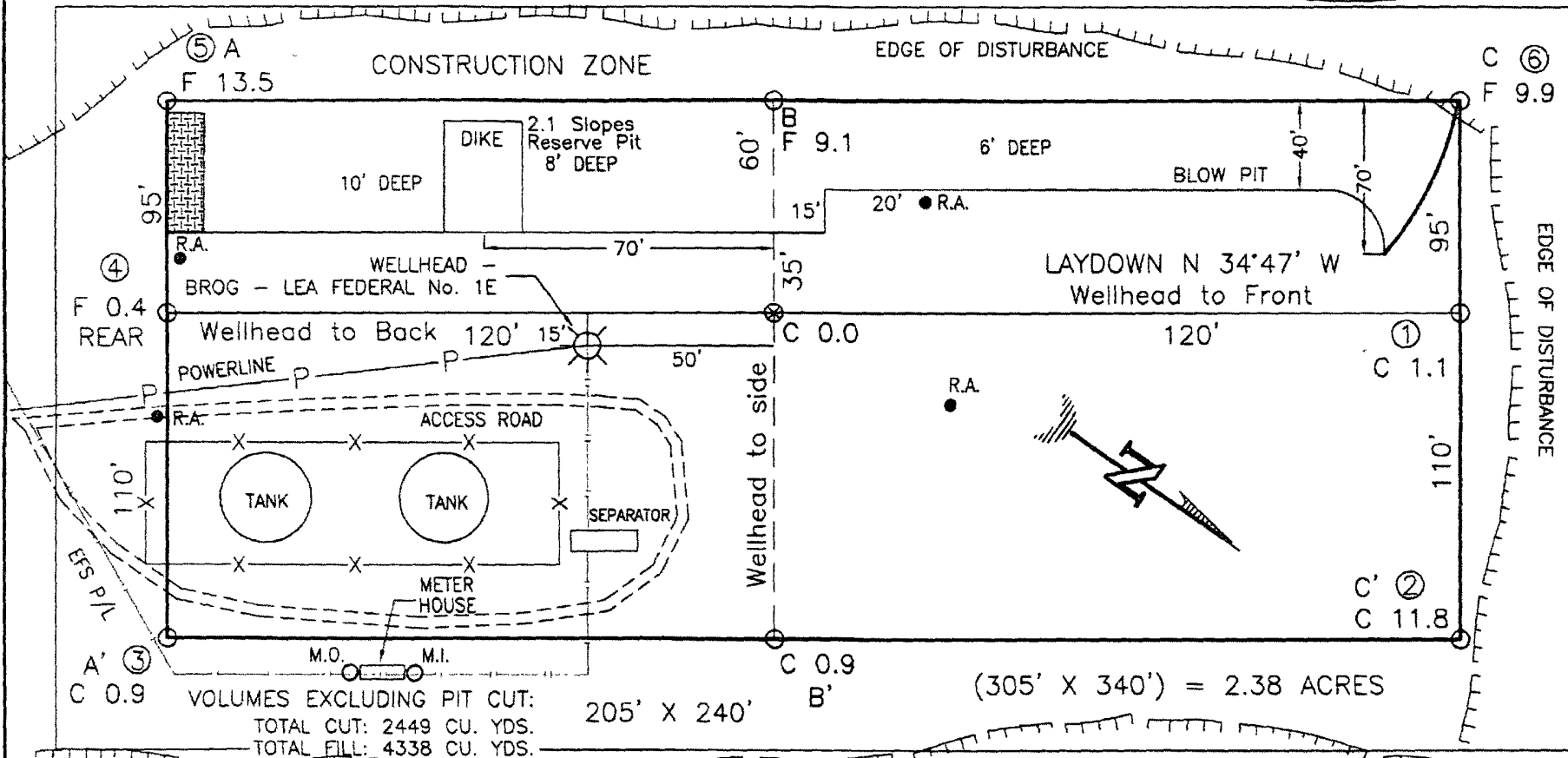
GROUND ELEVATION: 5624', DATE: OCTOBER 9, 2007

NAD 83

LAT. = 36.86128° N.
LONG. = 108.19516° W.

NAD 27

LAT. = 36°51.6768' N.
LONG. = 108°11.6716' 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. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.

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

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.

REVISION	DATE	REVISED BY

Daggett Enterprises, Inc.
Surveying and Oil Field Services
P. O. Box 510 • Farmington, NM 87499
Phone (505) 326-1772 • Fax (505) 326-8019
NEW MEXICO L.S. 8894

DRAWN BY: A.G.	CADFILE: BR686_PL8
ROW#: BR686	DATE: 10/17/07

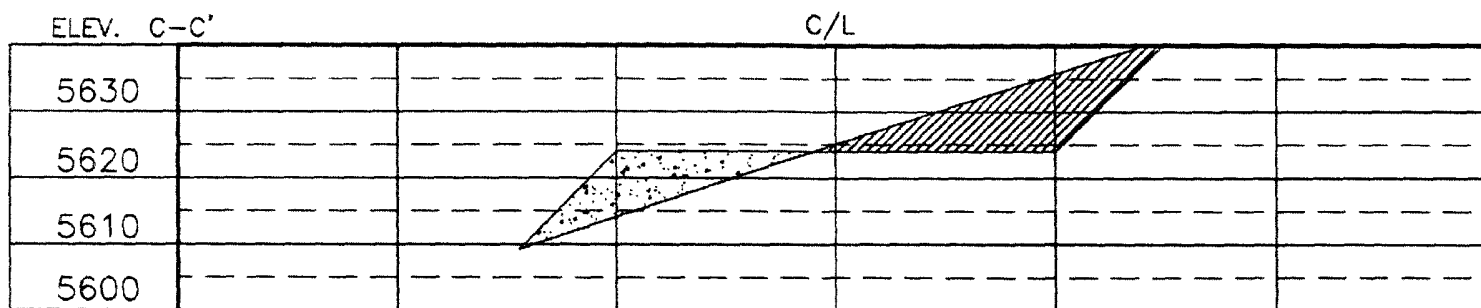
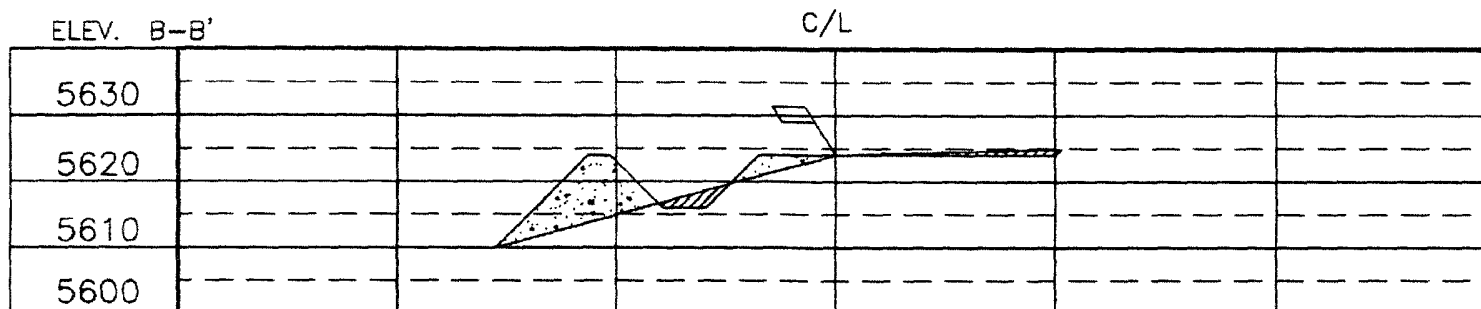
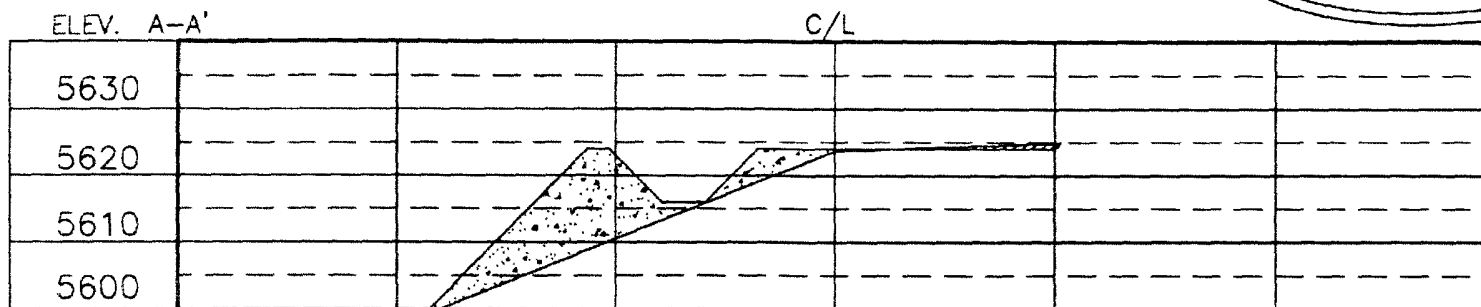
BURLINGTON RESOURCES OIL & GAS COMPANY LP

LEA FEDERAL No. 100S, 810 FNL 1730 FWL

SECTION 34, T-31-N, R-13-W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO

GROUND ELEVATION: 5624', DATE: OCTOBER 9, 2007

NAD 83
LAT. = 36.86128° N
LONG. = 108.19516° W
NAD 27
LAT. = 36°51.6768' N
LONG. = 108°11.6716' W




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.

REVISION:	DATE:	REVISED BY:
 Daggett Enterprises, Inc. Surveying and Oil Field Services P. O. Box 510 • Farmington, NM 87499 Phone (505) 326-1772 • Fax (505) 326-6019 NEW MEXICO L.S. 8894		
DRAWN BY: A.G.	CADFILE: BR686_CFB	
ROW#: BR686	DATE: 10/18/07	