

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	RECEIVED OCT 1 2007 Bureau of Land Management Farmington Field Office	5. Lease Number NM-02861 Unit Reporting Number
1b. Type of Well GAS		6. If Indian, All. or Tribe RCVD DEC 6 '07
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name OIL CONS. DIV. DIST. 3	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Lodewick 9. Well Number #13S	
4. Location of Well Surf: Unit C(NENW), 1000' FNL & 1600' FWL Latitude 36° 33.90550 N Longitude 107° 49.94080 W	10. Field, Pool, Wildcat Basin Fruitland Coal 11. Sec., Twn, Rge, Mer. (NMPM) C Sec. 19, T27N, R9W API # 30-045-34449	
14. Distance in Miles from Nearest Town 25 mile	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1000'	17. Acres Assigned to Well 321.62 (W/2)	
16. Acres in Lease 1283.48	20. Rotary or Cable Tools Rotary	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 52' from Lodewick 9	22. Approx. Date Work will Start NOVAL OR ACCEPTANCE OF THIS ON DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS	
19. Proposed Depth 2581'	24. Authorized by: <u>Rhonda Rogers</u> Rhonda Rogers (Regulatory Technician)	
21. Elevations (DF, FT, GR, Etc.) 6519' GL	Date 9-28-07	
23. Proposed Casing and Cementing Program See Operations Plan attached		

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

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

NMOCD

DEC 13 2007

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

RECEIVED

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised October 12, 2005

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

Bureau of Land Management
Appropriate District Office

State Lease - 4 Copies
Fee Lease - 3 Copies

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

OIL CONSERVATION DIVISION

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

☐ AMENDED REPORT

DISTRICT IV
1820 S. St. Francis Dr., Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-34449	² Pool Code 71629	³ Pool Name BASIN FRUITLAND COAL
⁴ Property Code 7273	⁵ Property Name LODEWICK	⁶ Well Number 13 S
⁷ OGSD No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP	⁹ Elevation 6519'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot No.	Feet from the	North/South line	Feet from the	East/West line	County
C	19	27N	9W		1000'	NORTH	1600'	WEST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot No.	Feet from the	North/South line	Feet from the	East/West line	County
C									
¹² Dedicated Acres 321.6 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 undivided 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.

Rhonda Rogers 9-28-07
Signature Date

Rhonda Rogers
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.

AUGUST 8, 2007
Date of Survey

Signature and Seal of Professional Surveyor:
David R. Russell

DAVID R. RUSSELL
10201
REGISTERED PROFESSIONAL LAND SURVEYOR - N.M.

DAVID RUSSELL
Certificate Number 10201

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

May 27, 2004

<p>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.)</p>		<p>WELL API NO. 30-045- <u>34449</u></p>
<p>1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other <input type="checkbox"/></p>		<p>5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/></p>
<p>2. Name of Operator BURLINGTON RESOURCES OIL & GAS COMPANY LP</p>		<p>6. State Oil & Gas Lease No. Federal Lease #NM-02861</p>
<p>3. Address of Operator 3401 E. 30TH STREET, FARMINGTON, NM 87402</p>		<p>7. Lease Name or Unit Agreement Name Lodewick</p>
<p>4. Well Location Unit Letter <u>C</u> : <u>1000'</u> feet from the <u>North</u> line and <u>1600'</u> feet from the <u>West</u> line Section <u>19</u> Township <u>27N</u> Rng <u>9W</u> NMPM County <u>San Juan</u></p>		<p>8. Well Number #13S</p>
<p>11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6519'</p>		<p>9. OGRID Number 14538</p>
<p>Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/></p>		<p>10. Pool name or Wildcat Basin Fruitland Coal</p>
<p>Pit type <u>New Drill</u> Depth to Groundwater <u>>100</u> Distance from nearest fresh water well <u>>1000</u> Distance from nearest surface water <u>>1000</u></p>		
<p>Pit Liner Thickness: <u>NA</u> mil Below-Grade Tank: <u>Volume</u> bbls; Construction Material <u></u></p>		

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, Unlined:

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, vent/flare pit and pre-set mud pit will be unlined 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 unlined, 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 Rhonda Rogers TITLE Regulatory Technician DATE 9-28-07

Type or print name Rhonda Rogers E-mail address: rogerr@conocophillips.com Telephone No. 505-599-4018

For State Use Only

APPROVED BY [Signature] TITLE Deputy Oil & Gas Inspector, DATE DEC 13 2007

Conditions of Approval (if any):

District #3

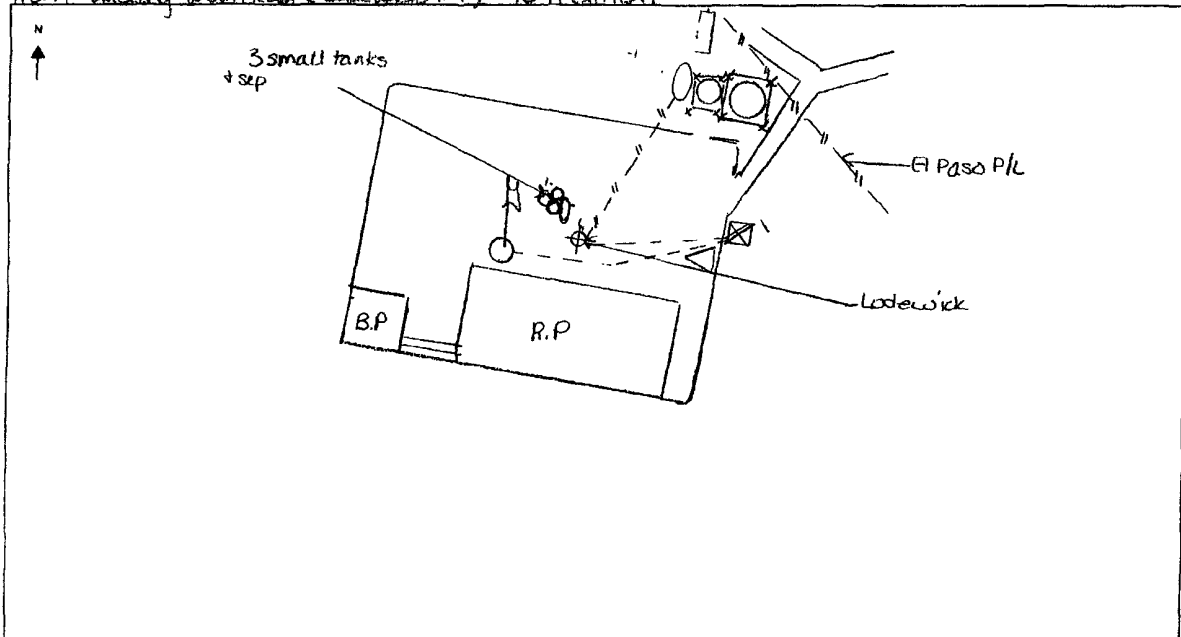


TECHNICAL SERVICES
A CORROSION COMPANY

CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME Lodewick #13S LEGALS C-19-27-9 COUNTY San Juan

PURPOSED C.P. SYSTEM: Drill GB and set rectifier on E edge of line location (South side of access road). Trench approx 1900' of A/C from rectifier/HP on Lodewick #8E to new rectifier. Trench approx 160' of #8 neg from proposed well to rectifier. Trench approx 100' of #8 neg from existing wellhead (Lodewick #9) to rectifier.



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

COMMENTS: Need pit big enough to maintain (a) least 2 wells

NEAREST POWER SOURCE Lodewick #8E HP + Rect DISTANCE: 900'
PIPELINES IN AREA: El Paso P/L

TECHNICIAN: Michelle Hingora DATE: 9/5/07

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

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

LODEWICK 13S

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7269		AFE \$: 194,764.98	
Field Name: hBR_SAN JUAN		Rig: Aztec Rig 580		State: NM	County: SAN JUAN
Geologist:		Phone:		Geophysicist:	
Geoscientist: Clark, Dave D		Phone: 505-326-9762		Prod. Engineer:	
Res. Engineer:		Phone:		Proj. Field Lead:	
				Phone:	

Primary Objective (Zones):	
Zone	Zone Name
JCV	BASIN FRUITLAND COAL (GAS)

Location: Surface		Datum Code: NAD 27		Straight Hole	
Latitude: 36.565092	Longitude: -107.832343	X:	Y:	Section: 19	Range: 009W
Footage X: 1600 FWL	Footage Y: 1000 FNL	Elevation: 6519	(FT)	Township: 027N	
Tolerance:					

Location Type: Year Round		Start Date (Est.): 1/1/2008		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6531 Units = FT							

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	120	6411	<input type="checkbox"/>			8-3/4 hole. 7" 20 ppf, J-55 STC csg. Cement with 50 cuft. Circulate cement to surface.
OJO ALAMO	1449	5082	<input type="checkbox"/>			
KIRTLAND	1607	4924	<input type="checkbox"/>			
FRUITLAND	2109	4422	<input type="checkbox"/>			Gas
PICTURED CLIFFS	2381	4150	<input type="checkbox"/>	100		Gas
Total Depth	2581	3950	<input type="checkbox"/>			6-1/4" hole. 4-1/2" 10.5 ppf, J-55, STC casing. Cement with 397 cuft. Circulate cement to surface.

Reference Wells:		
Reference Type	Well Name	Comments

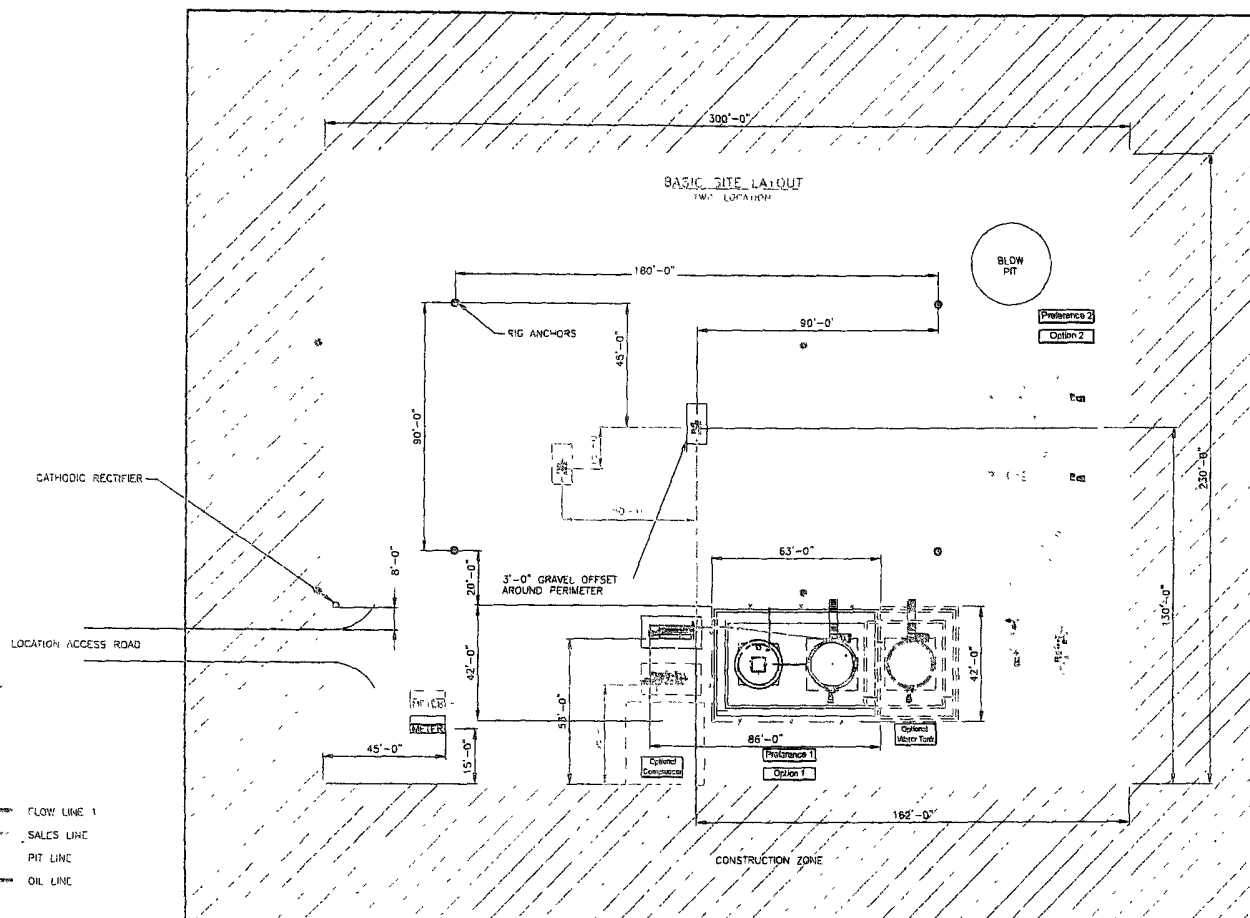
Logging Program:	
Intermediate Logs:	<input type="checkbox"/> Log only if show <input type="checkbox"/> GR/ILD <input type="checkbox"/> Triple Combo

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


Comments: Location/Tops/Logging - FCNM027N009W19NW1 Twin Lodewick 9 (DK), else prefer C,E,F,D, keep distance from PC wells.

Zones - FCNM027N009W19NW1



SEE SHEET 3 & 4 FOR PHASE DETAILS
ALL UNDEGROUND PIPE IS TO BE BURIED A MIN. OF 2'-0" TOP

SHEET 1 OF 5

										ENGINEERING REVIEW			REFERENCE DRAWINGS		 CONOCOPHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT			SAN JUAN BUSINESS UNIT			CLIENT INQ DRAWN BY		CLIENT APPR. SCALE: NONE		APP'D DATE CREATION DATE: 6/29/97		SHEET No 1 of 5	
										DESCRIPTION			DESCRIPTION															
										PROCESS																		
										MECHANICAL																		
										PIPING																		
										ELECTRICAL																		
										I & C																		
										CIVIL/STRUCTURAL																		

LATITUDE: 36.56510°N
 LONGITUDE: 107.83296°W
 DATUM: NAD 83

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

BURLINGTON RESOURCES O&G CO LP

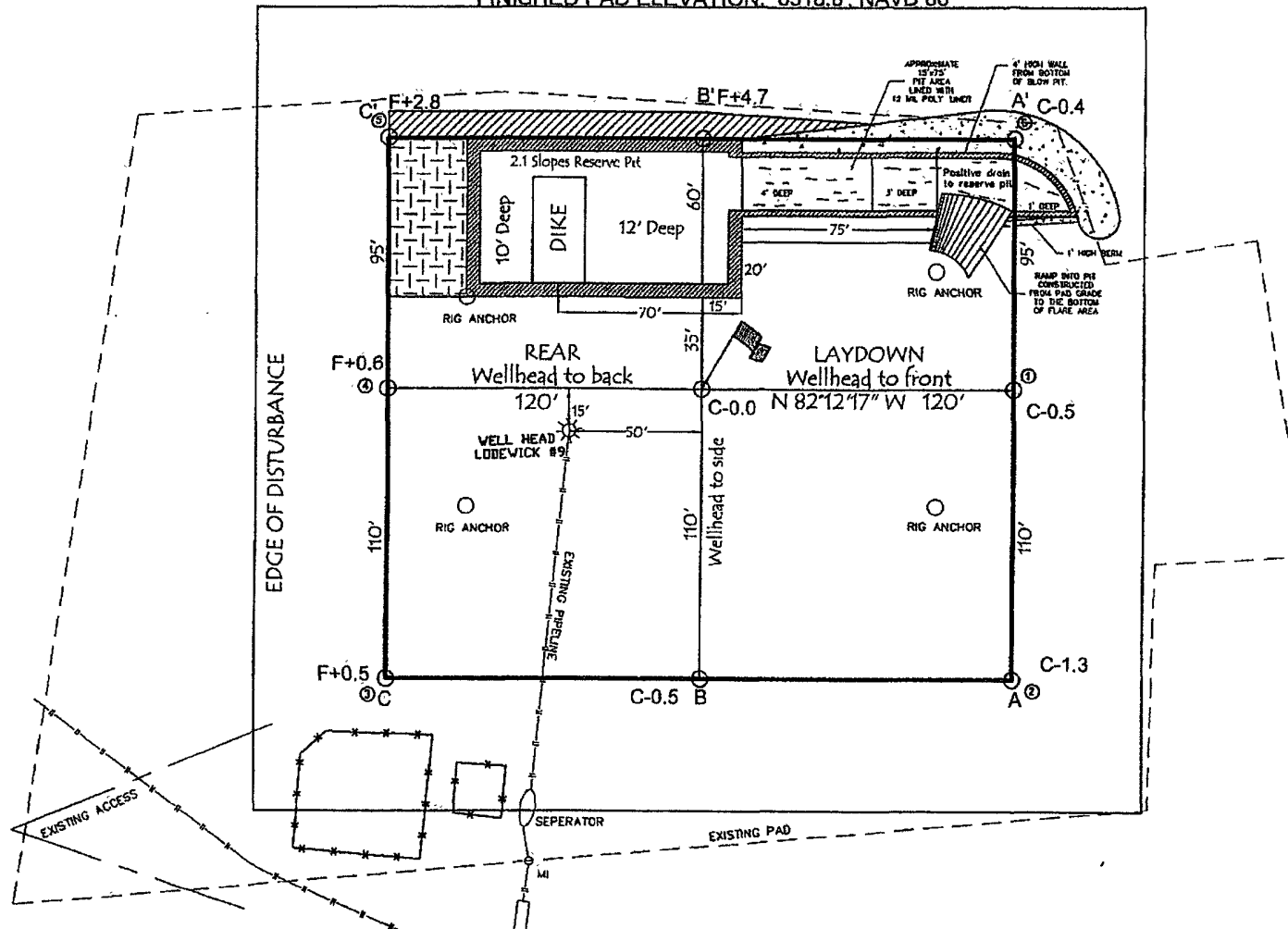
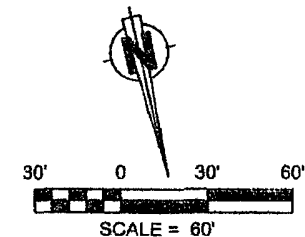
LODEWICK #13 S
 1000' FNL & 1600' FWL

LOCATED IN THE NE/4 NW/4 OF SECTION 19,
 T27N, R9W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

GROUND ELEVATION: 6519', NAVD 88

FINISHED PAD ELEVATION: 6518.8' NAVD 88



305' x 340' = 2.38 ACRES OF DISTURBANCE
 SCALE: 1" = 60'

JOB No.: COPC096
 DATE: 08/16/07

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.

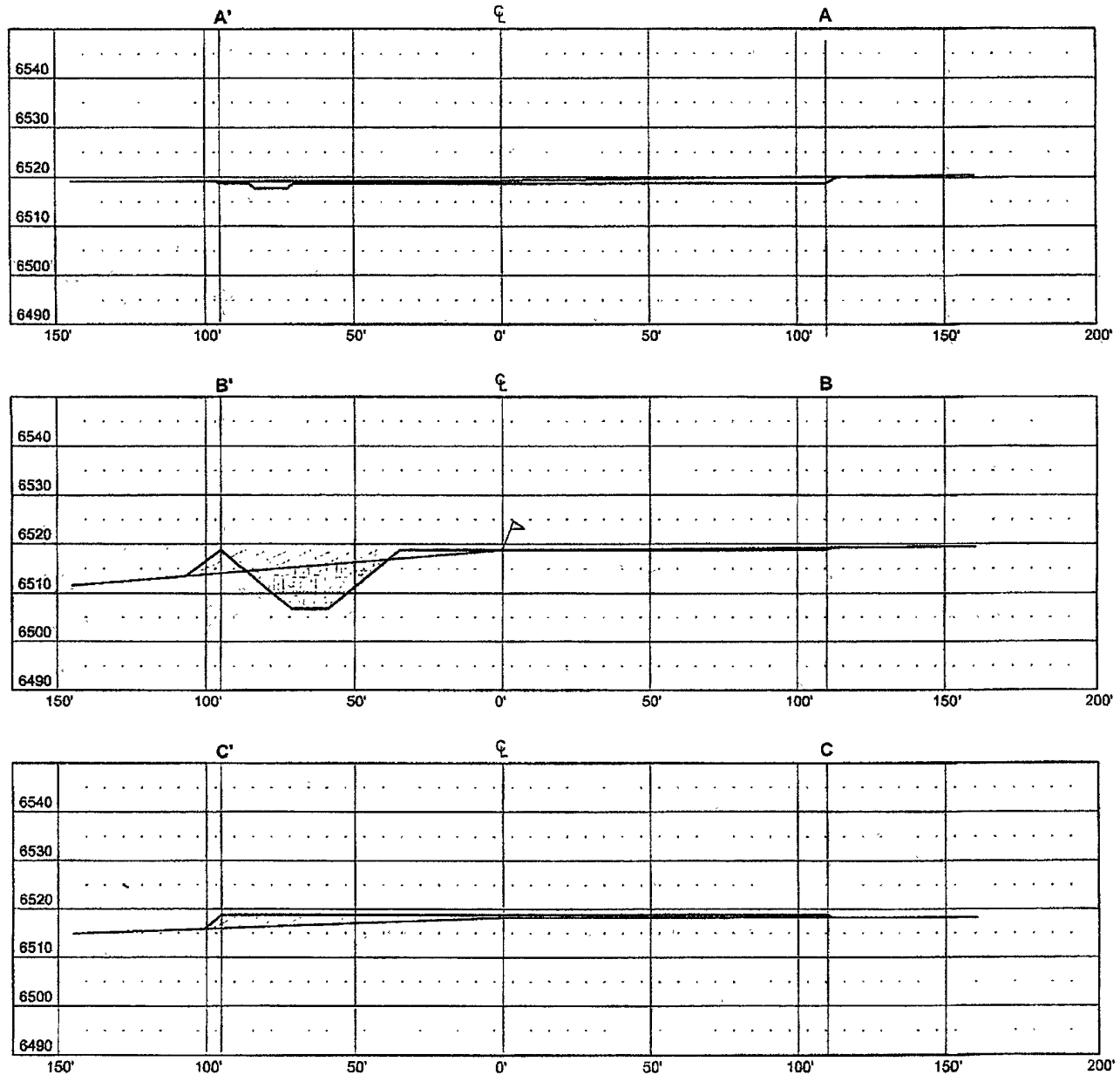


Russell Surveying
 1409 W. Aztec Blvd. #2
 Aztec, New Mexico 87410
 (505) 334-8637

LATITUDE: 36.56510°N
LONGITUDE: 107.83296°W
DATUM: NAD 83

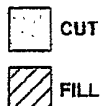
BURLINGTON RESOURCES O&G CO LP

LODEWICK #13 S
1000' FNL & 1600' FWL
LOCATED IN THE NE/4 NW/4 OF SECTION 19,
T27N, R9W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO
GROUND ELEVATION: 6519', NAVD 88
FINISHED PAD ELEVATION: 6518.8', NAVD 88



THIS DIAGRAM IS AN ESTIMATE OF DIRT BALANCE AND IS NOT INTENDED TO BE AN EXACT MEASURE OF VOLUME

VERT. SCALE: 1" = 30'
HORZ. SCALE: 1" = 50'
JOB No.: COPC096
DATE: 08/16/07



Russell Surveying
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Aztec, New Mexico 87410
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