

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

DEC 18 2007

Bureau of Land Management
Farmington Field Office

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number NMSF -080724-A Unit Reporting Number	
1b. Type of Well GAS	6. If Indian, All. or Tribe RCVD JAN 15 '08	
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 Zachry 9. Well Number #51M	
4. Location of Well Unit I (NESE), 1465' FSL & 735' FEL Latitude 36.67962 N. Longitude 107.84850	10. Field, Pool, Wildcat Basin Dakota/Blanco Mesaverde 11. Sec., Twn, Rge, Mer. (NMPM) I Sec. 35, T29N, R10W API # 30-045- 34543	
14. Distance in Miles from Nearest Town 10 Miles/Bloomfield	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1465'	17. Acres Assigned to Well MV/DK 320.00 (S/2)	
16. Acres in Lease 2294.300 2284.3		
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 360' from Zachry #3 - FC		
19. Proposed Depth 6615'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 5754' GL	22. Approx. Date Work will Start 12/16/07	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Jamie Goodwin</u> Jamie Goodwin (Regulatory Technician)		

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 3

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

JAN 16 2008

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

DISTRICT I
1025 N. French Dr., Hobbs, N.M. 88240

DISTRICT II
1501 E. Grand Avenue, Artesia, N.M. 88210

DISTRICT III
1000 Edo Stratos Rd., Aztec, N.M. 87410

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-1
Revised October 12, 2006

RECEIVED
DEC 18 2007

RECEIVED
OCT 19 2007

OIL CONSERVATION DIVISION

Bureau of Land Management
Farmington Field Office

Bureau of Land Management
Farmington Field Office

Submit to Appropriate District Office
State Lease - 4 Cop
Fee Lease - 3 Cop

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-34543	*Pool Code 72319/71599	*Pool Name BASIN DAKOTA/ BLANCO MESEVERDE
*Property Code 7654	*Property Name Zachry	*Well Number 51 M
*OGRD No. 14538	*Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP	*Elevation 5754'

10 Surface Location

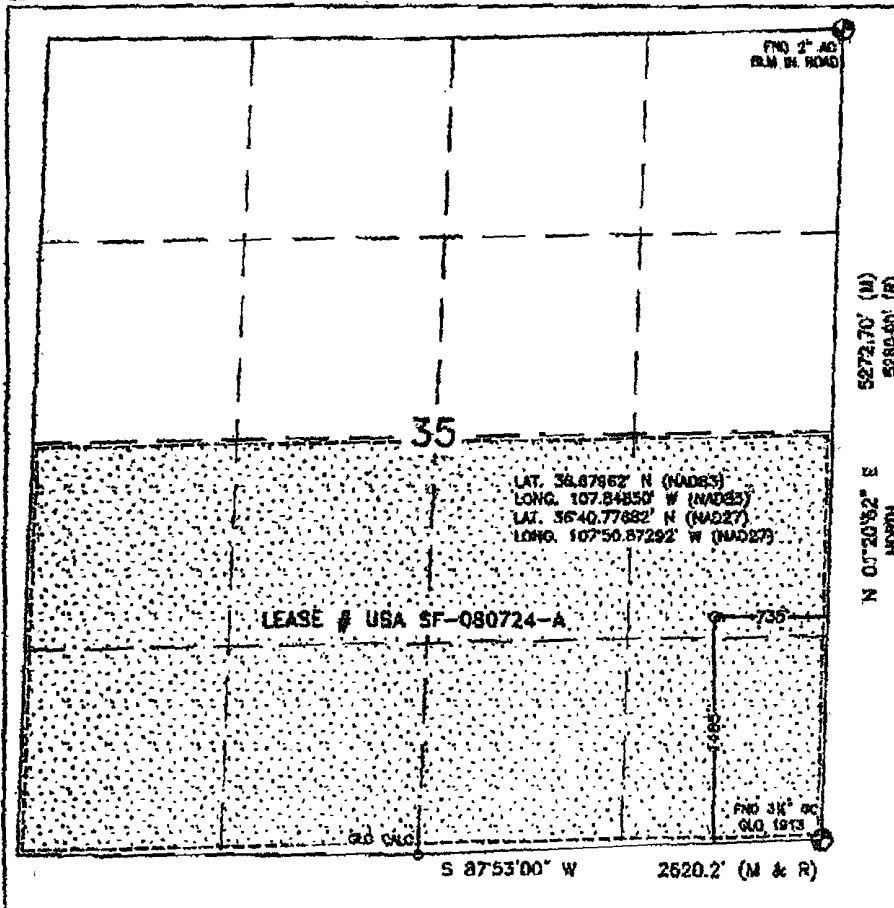
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	35	29N	10W		1465'	SOUTH	735'	EAST	SAN JUAN

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
1									
*Dedicated Acres 320.00 Acres - (S/2)			*Joint or Infill		*Consolidation Code		*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 sole/minor 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 the owner or a compulsory pooling order heretofore entered by the Division.

Rhonda Rogers 10-23-07
Signature Date

Rhonda Rogers

Printed Name

18 SURVEYOR CERTIFICATION

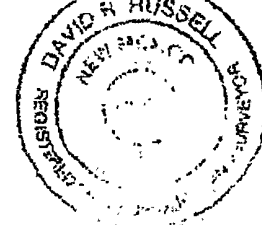
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

SEPTEMBER 27, 2007

Date of Survey

Signature and Seal of Professional Surveyor:

David H. Russell



DAVID RUSSELL

Certificate Number

10201

Office

Energy, Minerals and Natural Resources

May 27, 2004

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-

34543

5. Indicate Type of Lease

STATE ☐FEE ☐

6. State Oil & Gas Lease No.

USA SF-080724-A

7. Lease Name or Unit Agreement Name

Zachry

8. Well Number

51M

9. OGRID Number

14538

10. Pool name or Wildcat

Basin DK/Blanco MV

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 I : 1465' feet from the South line and 735' feet from the East line
 Section 35 Township 29N Range 10W NMPM County San Juan

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

5754'

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 ☐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 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



TITLE

Regulatory Technician

DATE

12/11/2007

Type or print name

Sasha Spangler

E-mail address: spangs@concoPhillips.com

Telephone No. 505-326-9568

For State Use Only

APPROVED BY



TITLE

Deputy Oil & Gas Inspector,
District #3

DATE

JAN 16 2008

Conditions of Approval (if any):



TECHNICAL SERVICES
A CORROSION COMPANY

CATHODIC PROTECTION PLAN FOR NEW WELLS

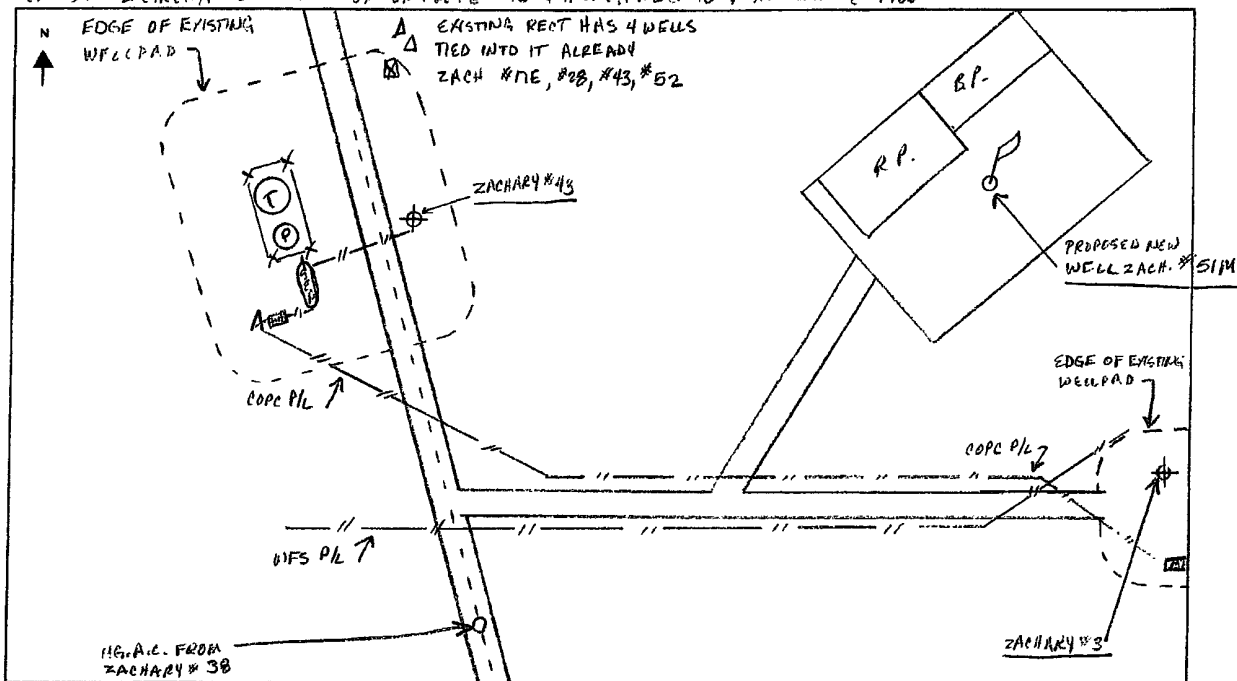
WELL NAME ZACHARY #51M

LEGALS I-35-2910

COUNTY S.J.

PURPOSED C.P. SYSYTEM: DRILL C.B. & SET RECT @ SOUTH CORNER OF LOC. TRENCH @ 1250' OF A.C. FROM MAIN RD. TO RECT. ALSO TIE IN ZACHARY #3 INTO RECT. CUT NEG @ ENTRANCE TO #51M & TRENCH @ 650' TO RECT.

OR SET 2 CIRCUIT DIVIDED BOX ON RECT @ #43 & TRENCH NEAR TO W.H. #51M @ 1900'



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

COMMENTS: RECT HAD FALLEN OFF STUB POLE. HAD TO REPAIR. NO A.C. TO RECT EITHER.

NEAREST POWER SOURCE High A.C. @ MAIN RD.

DISTANCE: 1250'

PIPELINES IN AREA: NFS & COPE

TECHNICIAN: John F. Jones

DATE: 10/28/07

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

[Signature]

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

ZACHRY 51M

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7296				AFE \$:	
Field Name: hBR_SAN JUAN		Rig: Bearcat Rig 4		State: NM	County: SAN JUAN		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist: Riley, Brook		Phone: +1 505-324-6108		Prod. Engineer:		Phone:	
Res. Engineer: McKee, Cory J		Phone: 505-326-9826		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
FRR	BASIN DAKOTA (PRORATED GAS)						
RON	BLANCO MESAVERDE (PRORATED GAS)						
Location: Surface Datum Code: NAD 27 Straight Hole							
Latitude: 36.679614		Longitude: -107.847882		X:	Y:	Section: 35	Range: 010W
Footage X: 735 FEL		Footage Y: 1465 FSL		Elevation: 5754 (FT)		Township: 029N	
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2009		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 5766 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	5566	☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 159 cuft. Circulate cement to surface.	
OJO ALAMO	873	4893	☐				
KIRTLAND	1026	4740	☐				
FRUITLAND	1703	4063	☐			Possible Gas	
PICTURED CLIFFS	2006	3760	☐				
LEWIS	2191	3575	☐				
Intermediate Casing	2291	3475	☐			8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Cement with 516 cuft. Circulate cement to surface.	
HUERFANITO BENTONITE	2611	3155	☐				
CHACRA	2983	2783	☐				
MASSIVE CLIFF HOUSE	3658	2108	☐	800		Gas	
MENEFEE	3671	2095	☐				
MASSIVE POINT LOOKOUT	4328	1438	☐				
MANCOS	4686	1080	☐				
UPPER GALLUP	5506	260	☐				
GREENHORN	6294	-528	☐				
GRANEROS	6356	-590	☐				
TWO WELLS	6415	-649	☐	1000		Gas	
PAGUATE	6473	-707	☐				
CUBERO	6529	-763	☐				
ENCINAL	6598	-832	☐				
TOTAL DEPTH DK	6615	-849	☐			6-1/4" Hole. 4-1/2", 10.6/11.6 ppf, J-55 STC/LTC casing. Cement with 588 cuft. Circulate cement a minimum of 100' inside the previous casing string.	
Reference Wells:							
Reference Type	Well Name		Comments				

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

ZACHRY 51M

DEVELOPMENT

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

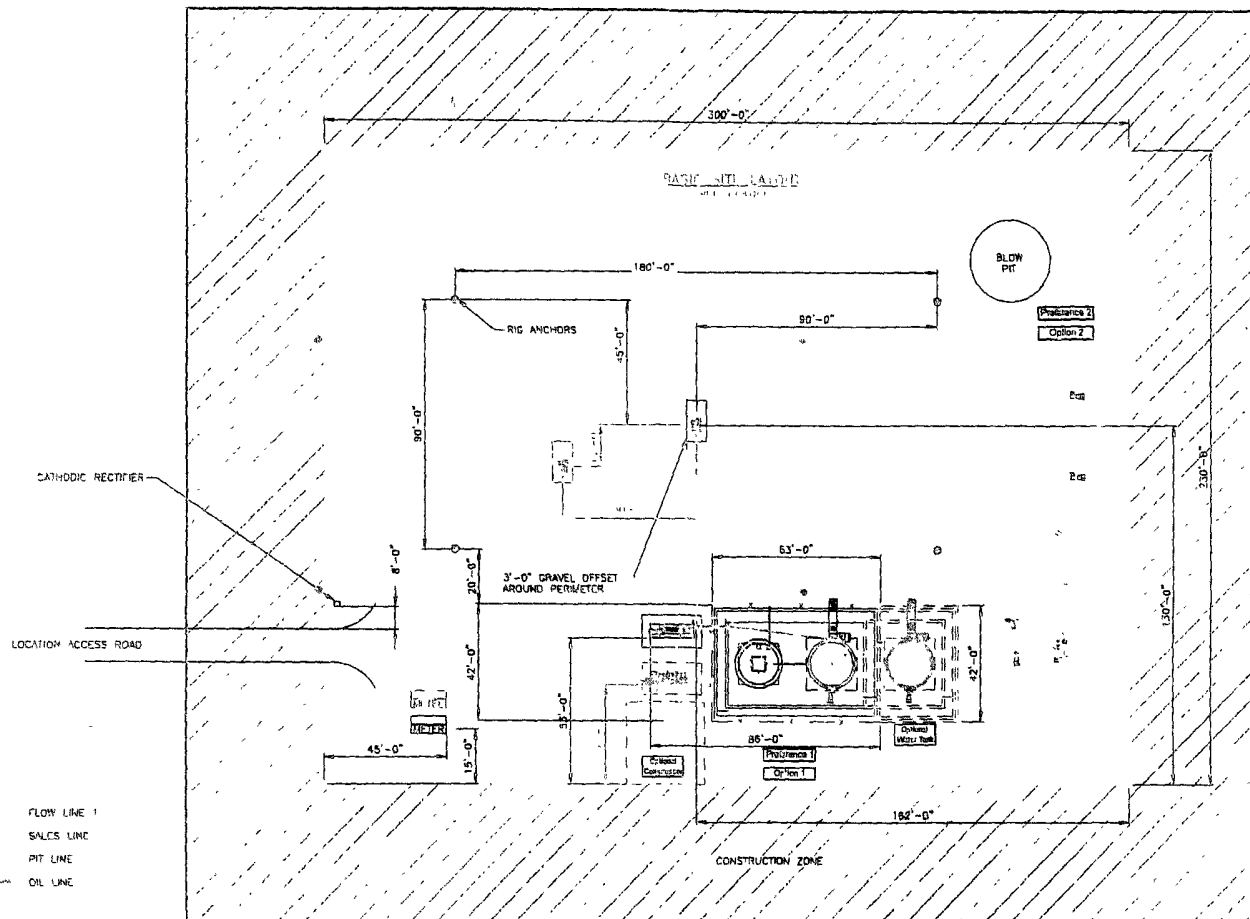
TD Logs:	☐ Triple Combo	☐ Dipmeter	☐ RFT	☐ Sonic	☐ VSP	☐ TDT	☒ Other
Est bottom perf ~20' above TD.							

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

Comments: Location/Tops/Logging - MVNM029N010W35SE2 DK 29N10W35SE2 Avoid O, do not twin, prefer I,P,J, topo could be an issue.

Zones - MVNM029N010W35SE2 DK 29N10W35SE2

General/Work Description - NO LEWIS



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

SHEET 1 OF 3

ENGINEERING REVIEW										REFERENCE DRAWINGS		CenocoPhillips		CONOCOPHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT		
NO.	DESCRIPTION	DATE	BY	CHKD	ENG	DES	APP	PROJ	STATUS	NO.	DESCRIPTION			CLIENT No.	CLIENT NAME	PROJECT DATE
1	DESIGN									1	DESIGN					
2	REVISION									2	REVISION					
3	REVISION									3	REVISION					
4	REVISION									4	REVISION					
5	REVISION									5	REVISION					
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SAN JUAN BUSINESS UNIT

CLIENT No. _____
CLIENT NAME _____
PROJECT DATE _____
SCALE 1"=100'
DRAWING DATE 8/19/07
HP3PHASE-REV1
1 OF 5

LATITUDE: 36.67962°N
 LONGITUDE: 107.84850°W
 DATUM: NAD 83

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

BURLINGTON RESOURCES O&G CO LP

ZACHRY #51 M

1465' FSL & 735' FEL

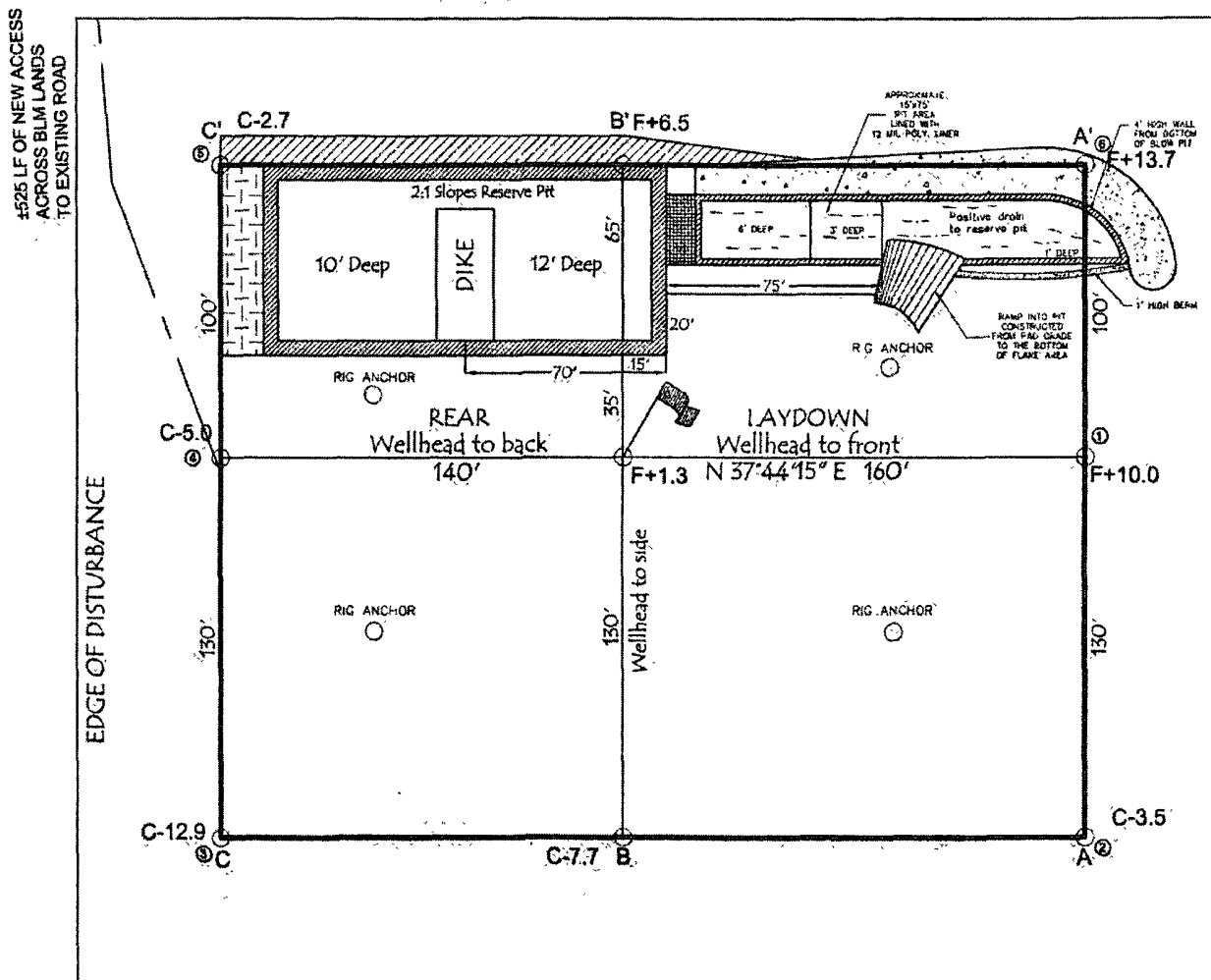
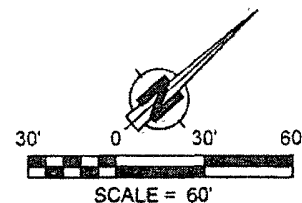
LOCATED IN THE NE/4 SE/4 OF SECTION 35,

T29N, R10W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

GROUND ELEVATION: 5754', NAVD 88

FINISHED PAD ELEVATION: 5755.1', NAVD 88



330' x 400' = 3.03 ACRES OF DISTURBANCE

SCALE: 1" = 60'

JOB No.: COPC112

DATE: 10/05/007

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

BURLINGTON RESOURCES O&G CO LP

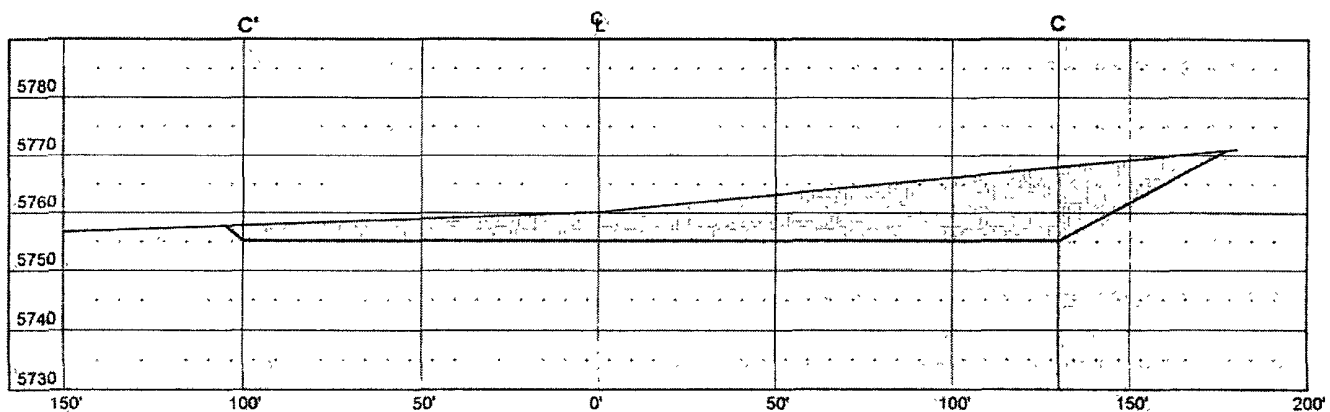
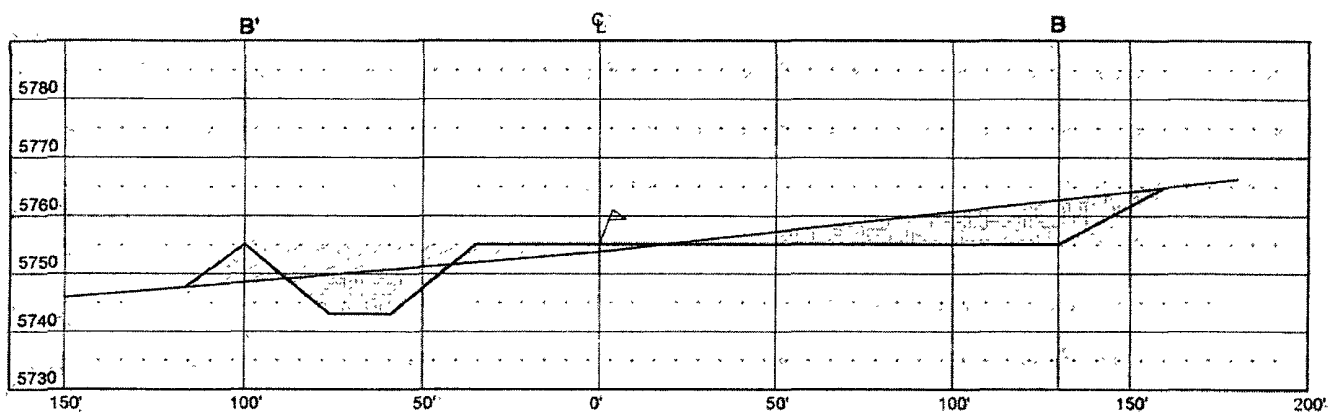
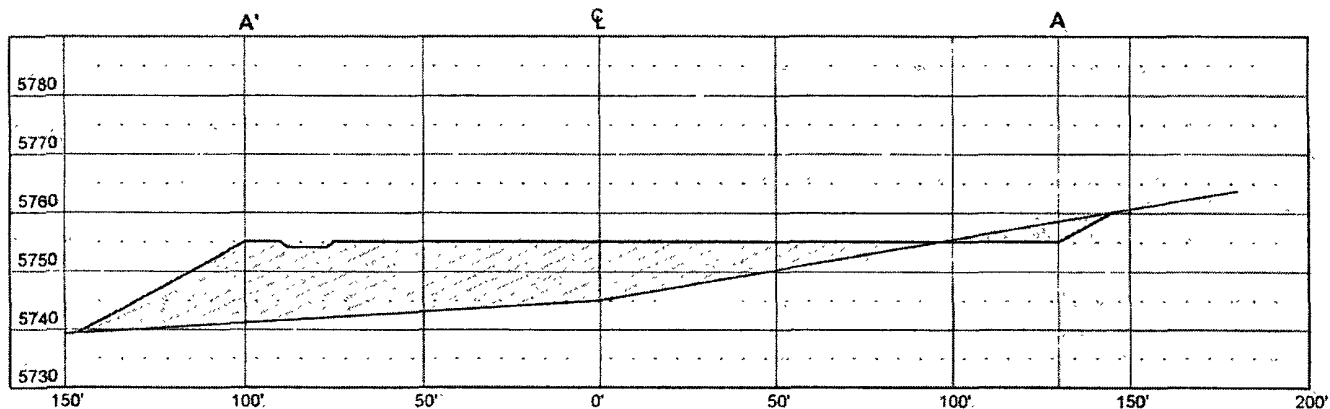
ZACHRY #51 M
1465' FSL & 735' FEL

LOCATED IN THE NE/4 SE/4 OF SECTION 35,
T29N, R10W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

GROUND ELEVATION: 5754', NAVD 88

FINISHED PAD ELEVATION: 5755.1', 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'
HORIZ. SCALE: 1" = 50'
JOB No.: COPC112
DATE: 10/05/07

 CUT

 FILL



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