

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RCVD NOV 13 '07
OIL CONS. DIV.
DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	RECEIVED SEP 19 2007 Bureau of Land Management Farmington Field Office	5. Lease Number SF-079519-A Unit Reporting Number
1b. Type of Well GAS		6. If Indian, All. or Tribe NMNM-78411A-MV NMNM-78411B-DK
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP		7. Unit Agreement Name San Juan 28-5 Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700		8. Farm or Lease Name 9. Well Number #82N
4. Location of Well Unit N (SESW), 1190' FSL & 1990' FWL, Latitude 36. 64278'N Longitude 107.34881'W		10. Field, Pool, Wildcat Blanco MV/Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) N Sec. 22, T28N, R5W API # 30-039-30365
14. Distance in Miles from Nearest Town 34 miles from Bloomfield		12. County Rio Arriba
		13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1190'		
16. Acres in Lease 2395.610 acres		17. Acres Assigned to Well MV - 320 (S/2); DK - 320 W/2
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease		
19. Proposed Depth 8168'		20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6845'		22. Approx. Date Work will Start BLM'S APPROVAL OR ACCEPTANCE OF ACTION DOES NOT RELIEVE THE LESSEE, THE OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATION ON FEDERAL AND INDIAN LANDS
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <i>Patsy Clugston</i> Patsy Clugston (Regulatory Specialist)		Date <i>11/19/07</i>

PERMIT NO.

APPROVAL DATE

APPROVED BY *D. Montee*

TITLE *AFM*

DATE *11/18/07*

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 NOV 20 2007
8 AW

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

SEP 19 2007

Form C-10:
Revised October 12, 2001

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

Bureau of Land Management
Farmington Field Office

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039- 30365		² Foot Code 72319/71599	³ Pool Name BLANCO MESA VERDE/BASIN DAKOTA
⁴ Property Code 7460	⁵ Property Name SAN JUAN 28-5 UNIT		⁶ Well Number 82N
⁷ OGRIID No 14538	⁸ Operator Name BURLINGTON RESOURCES O&G CO LP		⁹ Elevation 6845'

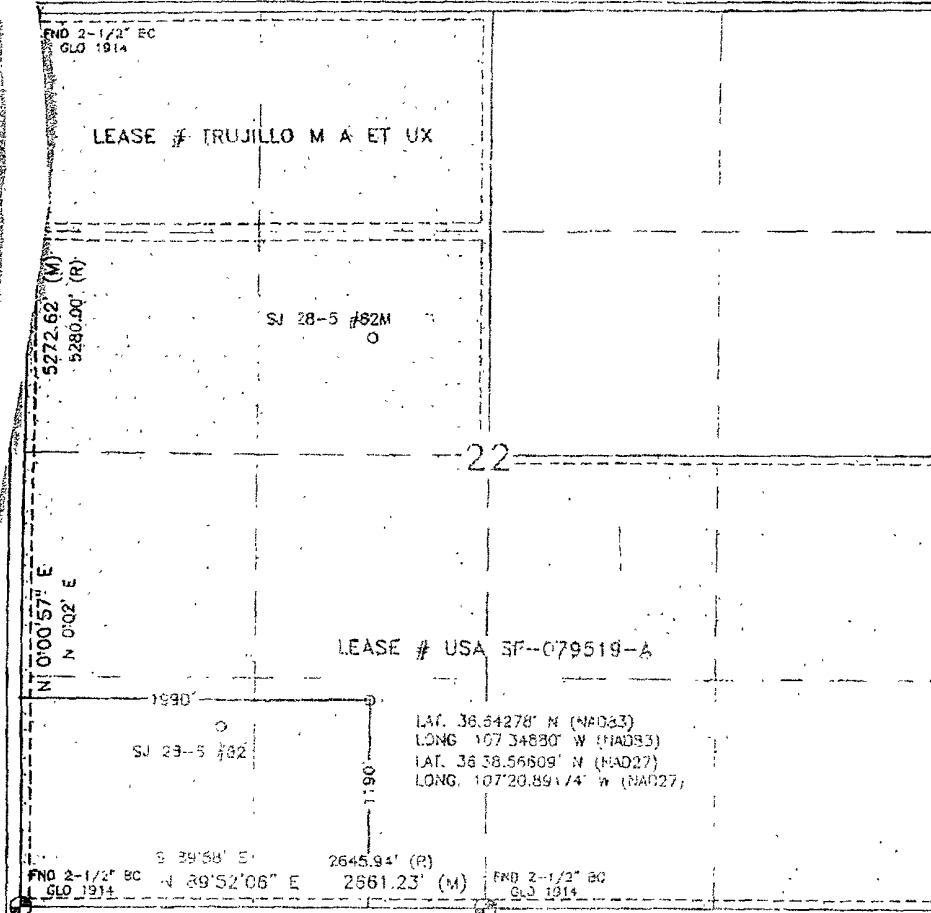
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	22	28N	5W		1190'	SOUTH	1990'	WEST	RIO ARriba

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
N									
¹² Dedicated Acres 320 W/2 DK 320 S/2 MV			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



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.

Kandis Roland 5/31/07
Signature Date

Kandis Roland

Printed Name

¹⁸ SURVEYOR CERTIFICATION

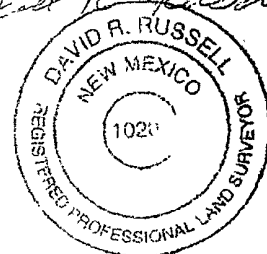
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

MAY 7, 2007

Date of Survey

Signature and Seal of Professional Surveyor:

David R. Russell



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

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

WELL API NO.	30-039- 30365
5. Indicate Type of Lease	STATE ☐ FEE ☐
6. State Oil & Gas Lease No.	Federal Lease # USA SF-079519-A
7. Lease Name or Unit Agreement Name	San Juan 28-5 Unit
8. Well Number	#82N
9. OGRID Number	14538
10. Pool name or Wildcat	Blanco MV/Basin DK

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 L.P.

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

4. Well Location
Unit Letter N : 1190' feet from the South line and 1990' feet from the West line
Section 22 Township 28N Rng 5W NMPM County Rio Arriba

11. Elevation (Show whether DK, RKB, RT, GR, etc.)
6845'

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 ☐

SUBSEQUENT REPORT OF:

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

OTHER: New Drill ☒ 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 Rhonda Rogers TITLE Regulatory Technician DATE 7-30-07

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

For State Use Only

APPROVED BY [Signature] TITLE Deputy Oil & Gas Inspector, District #3 DATE NOV 20 2007

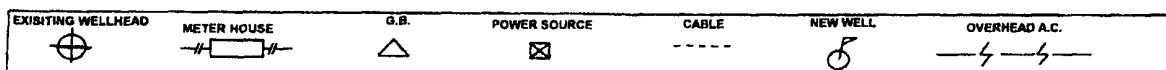
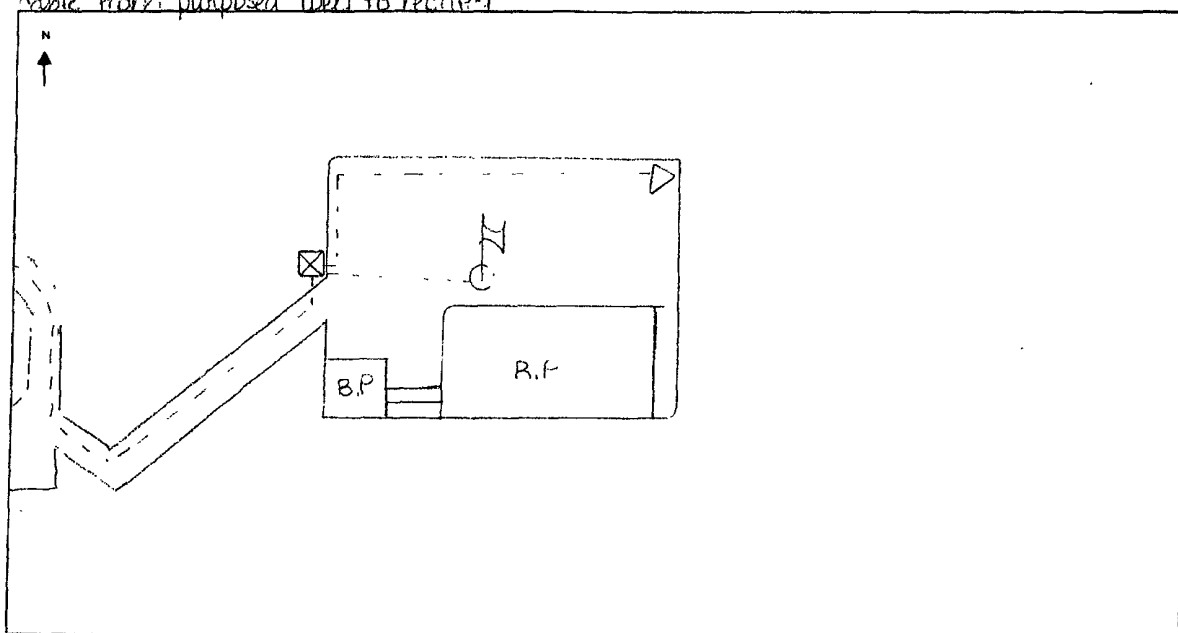
Conditions of Approval (if any):



CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME SJ 28-5 #82N LEGALS N-22-28-5 COUNTY Rio Arriba

PURPOSED C.P. SYSYTEM: Drill GB on NE corner of location. Set rectifier on outer W edge (N side of access road). Trench approx 1400' of A/C from existing rectifier to SJ 28-5 #48 to rectifier. Trench approx 450' of positive cable from GB to rectifier. Trench approx 175' of #8 neg cable from proposed well to rectifier.



COMMENTS: _____

NEAREST POWER SOURCE Existing Rectifier SJ 28-5 #48 DISTANCE: 1400'
PIPELINES IN AREA: WFS P/L - (on the #48)

TECHNICIAN: H. J. J. J. J. DATE: 5/25/07

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

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-5 UNIT 82N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7024		AFE \$:	
Field Name: hBR_SAN JUAN 28-5 UNIT		Rig: Aztec Rig 184		State: NM	County: RIO ARRIBA
Geologist:		Phone:		Geophysicist:	
Geoscientist: Head, Chip F		Phone: 505-326-9772		Prod. Engineer:	
Res. Engineer: Prabowo, Wahyu		Phone: 505-326-9797		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: 36.642751	Longitude: -107.348199	X:	Y:	Section: 22	Range: 005W
Footage X: 1990 FWL	Footage Y: 1190 FSL	Elevation: 6845	(FT)	Township: 028N	
Tolerance:					

Location Type: Year Round	Start Date (Est.): 1/1/2008	Completion Date:	Date In Operation:
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Formation Data: Assume KB = 6861	Units = FT
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Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	6661	☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 159 cuft. Circulate cement to surface.
OJAM	3009	3852	☐			
KRLD	3209	3652	☐			
FRLD	3420	3441	☐			Possible Gas
PCCF	3742	3119	☐			
LEWS	3904	2957	☐			
Intermediate Casing	4004	2857	☐			8 3/4" Hole. 7", 20/23 ppf, J-55, STC/LTC Casing. Cement with 902 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	4358	2503	☐			
CHRA	4710	2151	☐			
UCLFH	5304	1557	☐			Gas
MASSIVE CLIFF HOUSE	5516	1345	☐	625		Gas
MENF	5587	1274	☐			
PTLK	5882	979	☐			
MNCS	6449	412	☐			
GLLP	7098	-237	☐			
GRHN	7838	-977	☐			
GRRS	7902	-1041	☐			
TWLS	7949	-1088	☐	2400		Gas
PAGU	8021	-1160	☐			
CBRO	8038	-1177	☐			
CBRL	8087	-1226	☐			
ENCINAL	8168	-1307	☐			TD T/ENCN
TOTAL DEPTH DK	8168	-1307	☐			6-1/4" Hole. 4-1/2", 10.6/11.6 ppf, J-55 STC/LTC casing. Cement with 567 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

SAN JUAN 28-5 UNIT 82N

DEVELOPMENT

Production	28-5 #82	NW 22-28N-5W
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Logging Program:

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

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

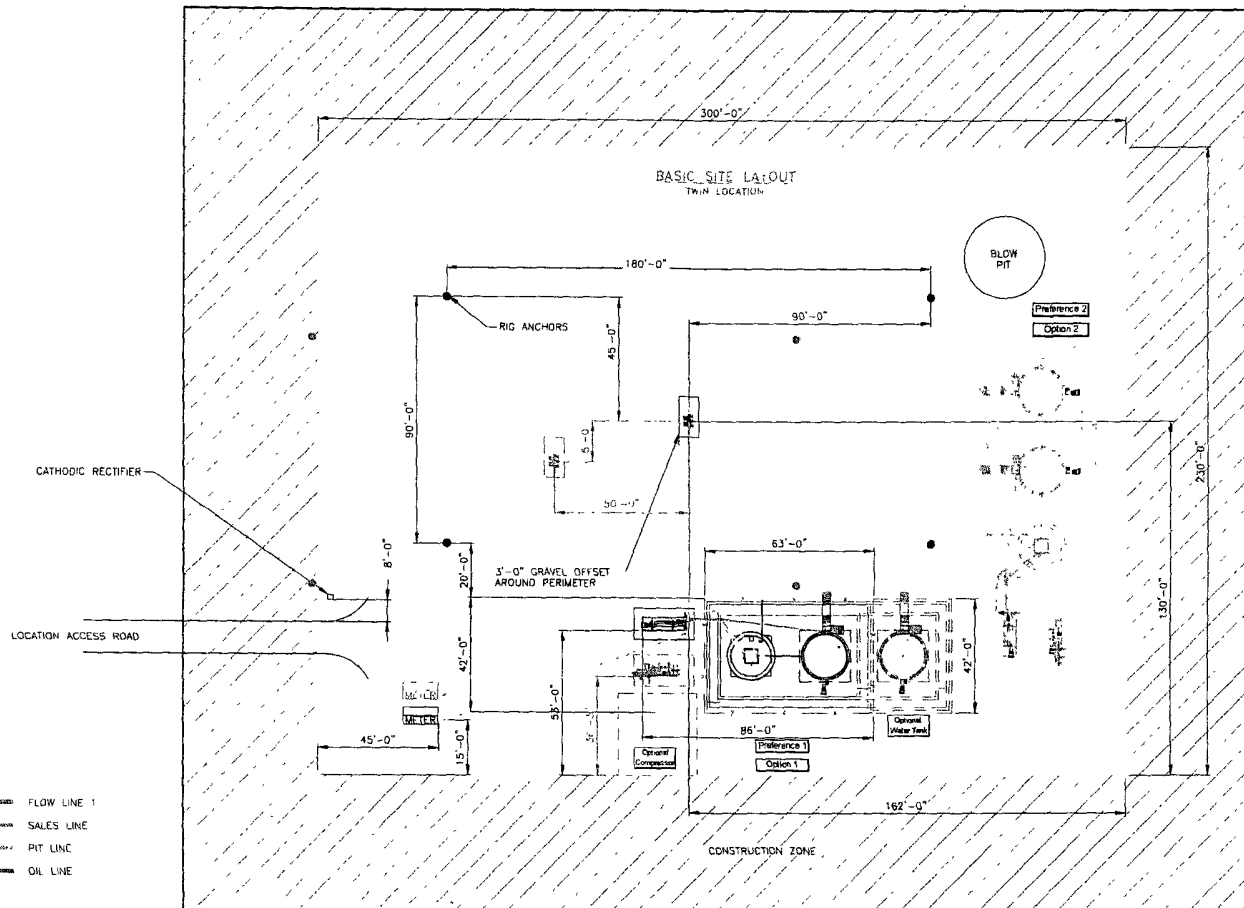
GR_CBL

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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Comments: Location/Tops/Logging - DK 28N05W22SW2 and MVNM028N005W22SW2

Zones - DK 28N05W22SW2 and MVNM028N005W22SW2



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

SHEET 1 OF 5

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100							ENGINEERING REVIEW			REFERENCE DRAWINGS				CONOCOPHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT		
							DISCIPLINE	REVIEWED	DATE	NO	DESCRIPTION			CLIENT NO	CLIENT APPR	APPR DATE
							PROCESS									
							MECHANICAL									
							PIPING									
							ELECTRICAL									
							I & C									
							CIVIL/STRUCTURAL									
DESCRIPTION						DATE	BY	CHK'D	ENG	ISC	PM	SAN JUAN BUSINESS UNIT			CREATION DATE 6/20/07	SHEET NO. 1 OF 5

\\hp3ph\Ship\DC\Ship\Analog\Regulatory\Twin Location Site Layout.dwg, 06/28/2007 - 08:39pm

LATITUDE: 36.64278°N
 LONGITUDE: 107.34880°W
 DATUM: NAD 83

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

BURLINGTON RESOURCES O&G CO LP

SAN JUAN 28-5 UNIT #82N

1190' FSL & 1990' FWL

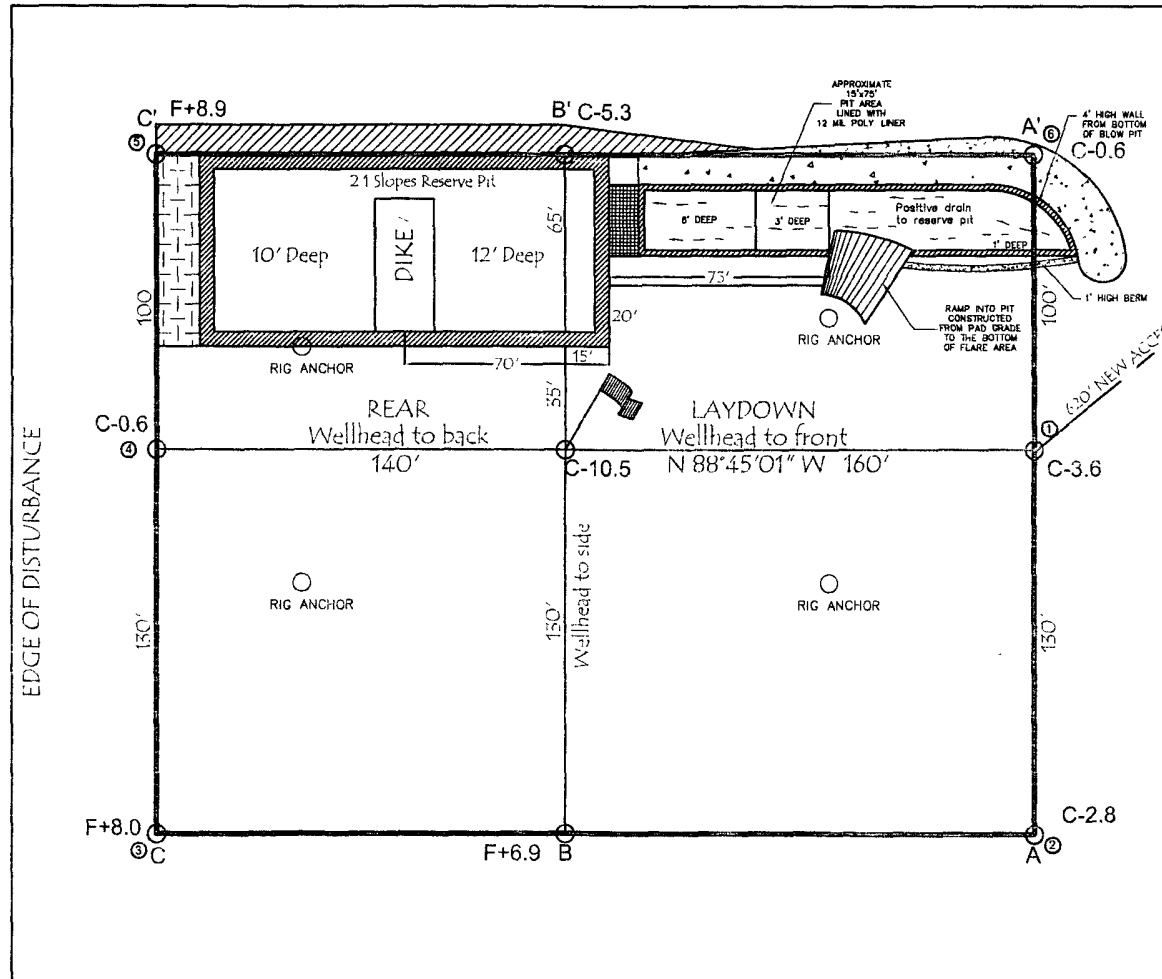
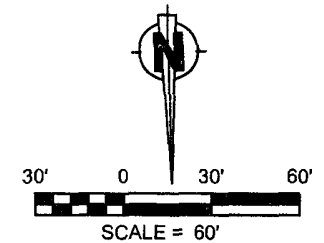
LOCATED IN THE SE/4 SW/4 OF SECTION 22,

T28N, R5W, N.M.P.M.,

RIO ARriba COUNTY, NEW MEXICO

GROUND ELEVATION: 6845', NAVD 88

FINISHED PAD ELEVATION: 6834.8', NAVD 88



330' x 400' = 3.03 ACRES OF DISTURBANCE

SCALE: 1" = 60'

JOB No.: COP061-REV2

DATE: 05/14/07

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.



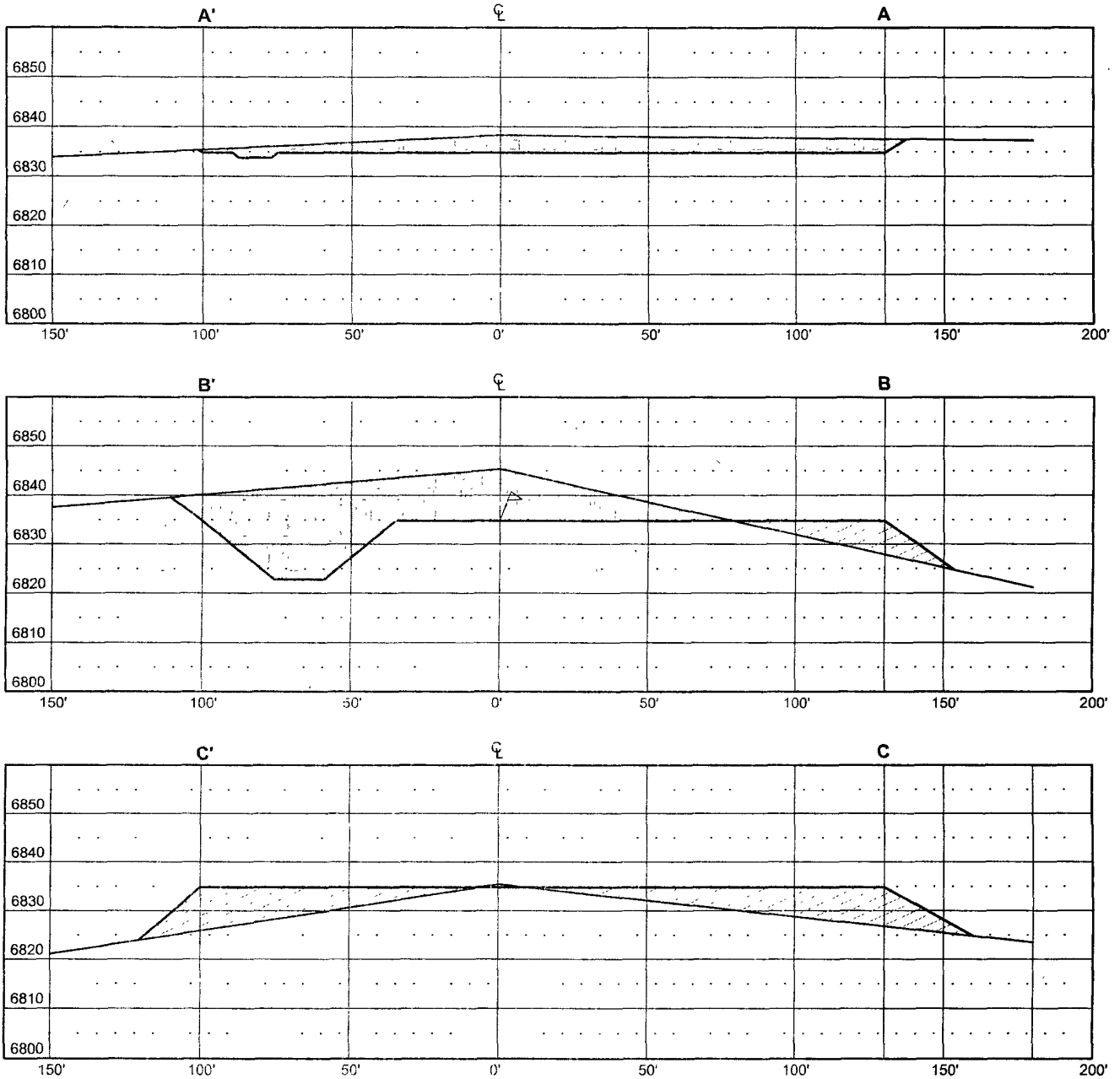
Russell Surveying
 1409 W. Aztec Blvd. #5
 Aztec, New Mexico 87410
 (505) 334-8637

GRR

LATITUDE: 36.64278°N
LONGITUDE: 107.34880°W
DATUM: NAD 83

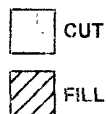
BURLINGTON RESOURCES O&G CO LP

SAN JUAN 28-5 UNIT #82N
1190' FSL & 1990' FWL
LOCATED IN THE SE/4 SW/4 OF SECTION 22,
T28N, R5W, N.M.P.M.,
RIO ARriba COUNTY, NEW MEXICO
GROUND ELEVATION: 6845', NAVD 88
FINISHED PAD ELEVATION: 6834.8', 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.: COP061-REV2
DATE: 05/14/07



 **Russell Surveying**
1409 W. Aztec Blvd. #5
Aztec, New Mexico 87410
(505) 334-8637