

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATION ON FEDERAL AND INDIAN LANDS

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number USA SF-079266 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 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 Vaughn 9. Well Number #15N
4. Location of Well Unit J (NWSE), 2405' FSL & 1670' FEL Latitude 36.45678 N. Longitude 107.46988 W.	10. Field, Pool, Wildcat Basin Dakota/Blanco Mesaverde 11. Sec., Twn, Rge, Mer. (NMPM) J Sec. 28, T26N, R6W API # 30-045-30429
14. Distance in Miles from Nearest Town 5 mile/Blanco	12. County San Juan Rio Arriba 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 2405'	17. Acres Assigned to Well MV/DK 320.00 (E/2)
16. Acres in Lease 2560.000	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 1100' from TEPO-Vaughn #28	20. Rotary or Cable Tools Rotary
19. Proposed Depth 7119'	
21. Elevations (DF, FT, GR, Etc.) 6344' GL	22. Approx. Date Work will Start 11/26/07
23. Proposed Casing and Cementing Program See Operations Plan attached	H ₂ S POTENTIAL EXIST
24. Authorized by: <i>Jamie Goodwin</i> Jamie Goodwin (Regulatory Technician)	Date

PERMIT NO.

APPROVAL DATE

APPROVED BY *Wayne Townsend*

TITLE *Acting AFM*

DATE *12-5-07*

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 **24**

Bond Numbers **NMB-000015 and NMB-000089**

NMOC

DEC 13 2007

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

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

NOV 27 2007

Form C-102
Revised October 12, 2005

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

Bureau of Land Management
Submit to: Appropriate District Office
Farmington Field 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 30-039-30429		2 Pool Code 71599 / 72319		3 Pool Name BASIN DAKOTA/BLANCO MESAVERDE	
4 Property Code 7623		5 Property Name VAUGHN			6 Well Number 15N
7 OGRID No. 14538		8 Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP			9 Elevation 6344'

10 Surface Location

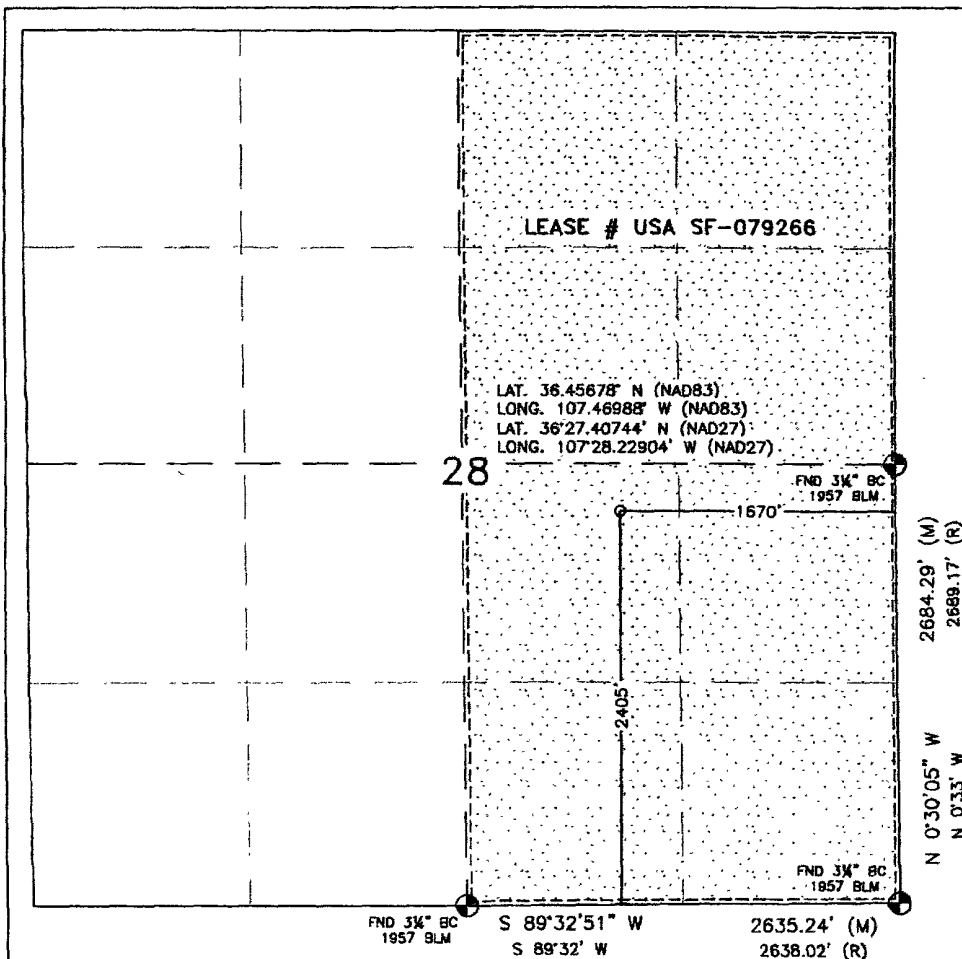
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	28	26N	6W		2405'	SOUTH	1670'	EAST	RIO ARriba

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
J									
12 Dedicated Acres MV/DK 320.00 Acres - (E/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 or a compulsory pooling order heretofore entered by the division.

Patsy Clugston 7/26/07
Signature Date

Patsy Clugston
Printed Name

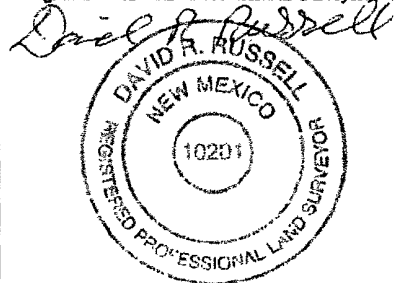
18 SURVEYOR CERTIFICATION

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.

JUNE 7, 2007

Date of Survey

Signature and Seal of Professional Surveyor



DAVID RUSSELL
Certificate Number 10201

State of New Mexico

Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION

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

Form C-103

May 27, 2004

WELL API NO.	30-039- 30429
5. Indicate Type of Lease	STATE <input type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.	USA SF-079266
7. Lease Name or Unit Agreement Name	Vaughn
8. Well Number	15N
9. OGRID Number	14538
10. Pool name or Wildcat	Basin DK/Blanco MV

SUNDY 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 J : 2405' feet from the South line and 1670' feet from the East line
Section 28 Township 26N Rng 6W NMPM County Rio Arriba

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
6344'

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 11/26/2007

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

For State Use Only

APPROVED BY [Signature] TITLE Deputy Oil & Gas Inspector, District #3 DATE DEC 13 2007

Conditions of Approval (if any):

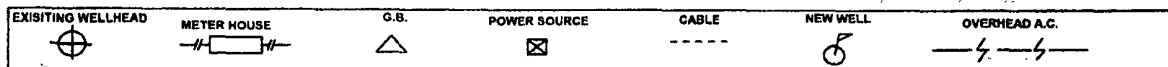
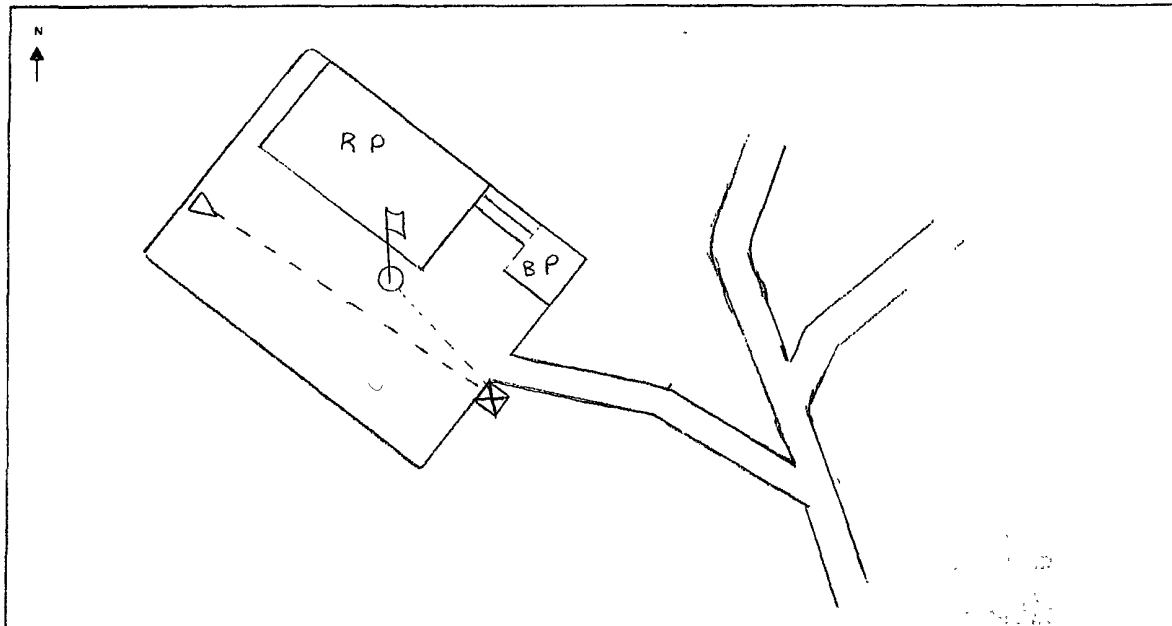


TECHNICAL SERVICES
A CORROSION COMPANY

CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME Vaughn #15N LEGALS J-28-26-6 COUNTY Rio Arriba

PURPOSED C.P. SYSYTEM: Drill GB on NW edge of location. Set solar on SE edge of location (S side of access road). Trench approx 300' of positive from GB to solar. Trench approx 200' of #8 neg cable from purposed well to solar.



COMMENTS: _____

NEAREST POWER SOURCE N/A DISTANCE: _____

PIPELINES IN AREA: _____

TECHNICIAN: Michelle Hingosa DATE: 7/17/07

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

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

VAUGHN 15N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7204		AFE \$:	
Field Name: hBR_SAN JUAN		Rig: Aztec Rig 301		State: NM	County: RIO ARRIBA
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: 36.456769	Longitude: -107.469276	X:	Y:	Section: 28	Range: 006W
Footage X: 1670 FEL	Footage Y: 2405 FSL	Elevation: 6344 (FT)	Township: 026N		

Tolerance:

Location Type: Year Round

Start Date (Est.): 1/1/2008

Completion Date:

Date In Operation:

Formation Data: Assume KB = 6356 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	320	6036	<input type="checkbox"/>			12-1/4" hole. 8 5/8" 24 ppf, J-55, STC casing. Cement with 319 cuft. Circulate cement to surface.
OJO ALAMO	1854	4502	<input type="checkbox"/>			
KIRTLAND	2073	4283	<input type="checkbox"/>			
FRUITLAND	2291	4065	<input type="checkbox"/>			Possible Gas
PICTURED CLIFFS	2532	3824	<input type="checkbox"/>			
LEWIS	2669	3687	<input type="checkbox"/>			
HUERFANITO BENTONITE	2980	3376	<input type="checkbox"/>			
CHACRA	3429	2927	<input type="checkbox"/>			
MASSIVE CLIFF HOUSE	4224	2132	<input type="checkbox"/>	600		
MENEFEE	4256	2100	<input type="checkbox"/>			
MASSIVE POINT LOOKOUT	4831	1525	<input type="checkbox"/>			GAS
MANCOS	5134	1222	<input type="checkbox"/>			
UPPER GALLUP	5873	483	<input type="checkbox"/>			
GREENHORN	6734	-378	<input type="checkbox"/>			
GRANEROS	6789	-433	<input type="checkbox"/>			
TWO WELLS	6846	-490	<input type="checkbox"/>	1700		Gas
UPPER CUBERO	6933	-577	<input type="checkbox"/>			
LOWER CUBERO	6966	-610	<input type="checkbox"/>			
OAK CANYON	6995	-639	<input type="checkbox"/>			
ENCINAL	7033	-677	<input type="checkbox"/>			
TOTAL DEPTH DK	7119	-763	<input type="checkbox"/>			TD 40' below T/MRSN. 7-7/8" Hole. 4-1/2", 11.6 ppf, N-80, LTC casing. Cement with 2121 cuft. Circulate cement to surface.

Reference Wells:

Reference Type	Well Name	Comments
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PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

VAUGHN 15N

DEVELOPMENT /

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

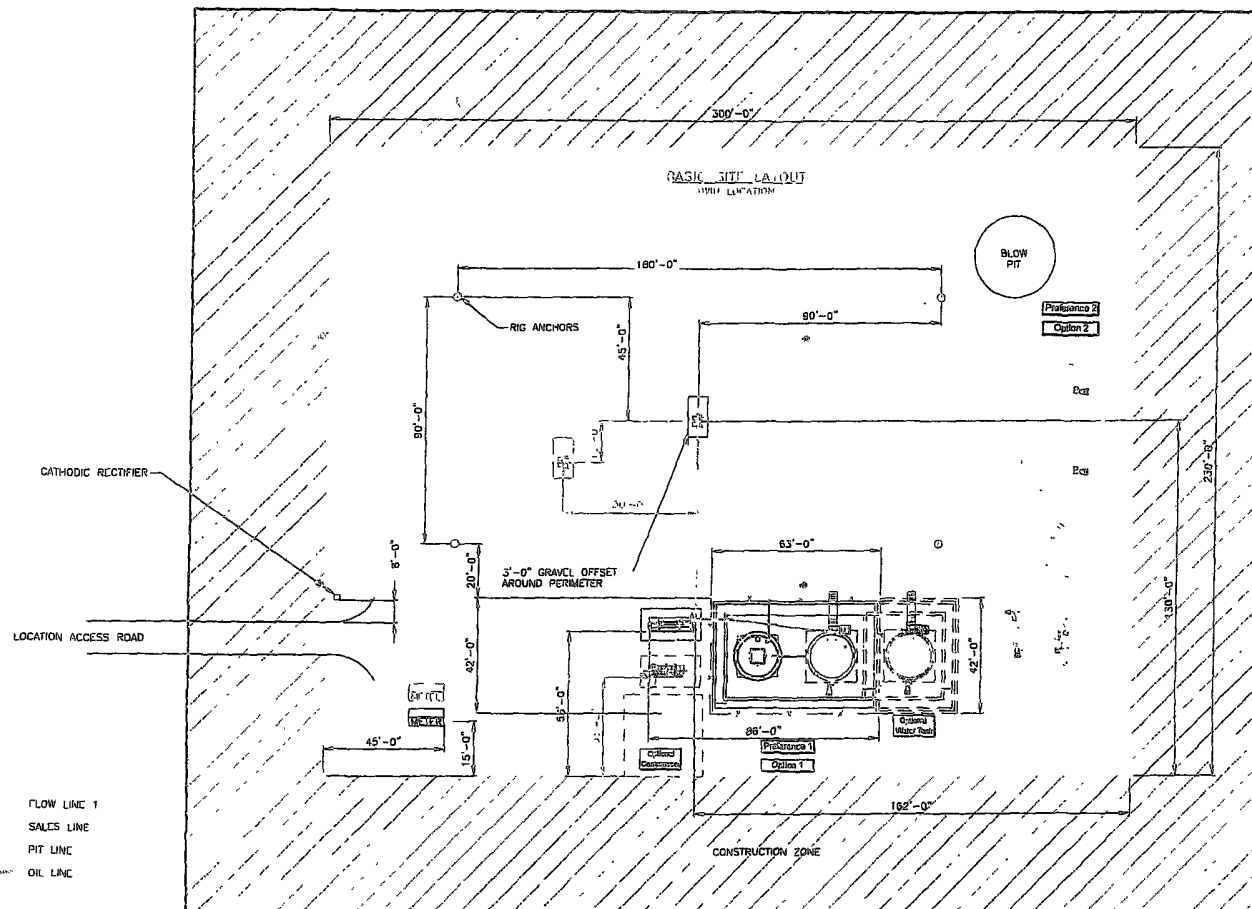
TD Logs:	<input type="checkbox"/> Triple Combo	<input type="checkbox"/> Dipmeter	<input type="checkbox"/> RFT	<input type="checkbox"/> Sonic	<input type="checkbox"/> VSP	<input type="checkbox"/> TDT	<input checked="" type="checkbox"/> Other
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GR/CBL. Est bottom perf is ~15' above TD. Mudlog from ~100' above the Greenhorn to TD. Mudloggers will call TD.

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

Comments: Location/Tops/Logging - MVNM026N006W28SE2 DK 26N06W28SE2 Avoid P, do not twin, prefer O,J,I, topo will be a problem.

Zones - MVNM026N006W28SE2 DK 26N06W28SE2



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

SHEET 1 OF 5

ENGINEERING REVIEW										REFERENCE DRAWINGS		CONOCO PHILLIPS		
NO.	DESCRIPTION	DATE	BY	CHKD	APP'D	NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	HIGH PRESSURE 3 PHASE		
1	PROCESS					1	MECHANICAL			1		FACILITY DIAGRAM- SITE LAYOUT		
2	PIPING					2	ELECTRICAL			2				
3	ELECTRICAL					3	ENVIRONMENTAL			3				
4	ENVIRONMENTAL					4	PROJECT			4				
5	PROJECT					5				5				
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SAN JUAN BUSINESS UNIT

CLIENT No. _____ CLIENT APPR. _____ HYD. PISC.
DESIGN No. _____ SCALE: NONE _____ CHECKED DATE: 6/29/97
DRAW No: _____ PROJECT No: _____ SHEET No: 1 OF 5

HP3PHASE-REV1

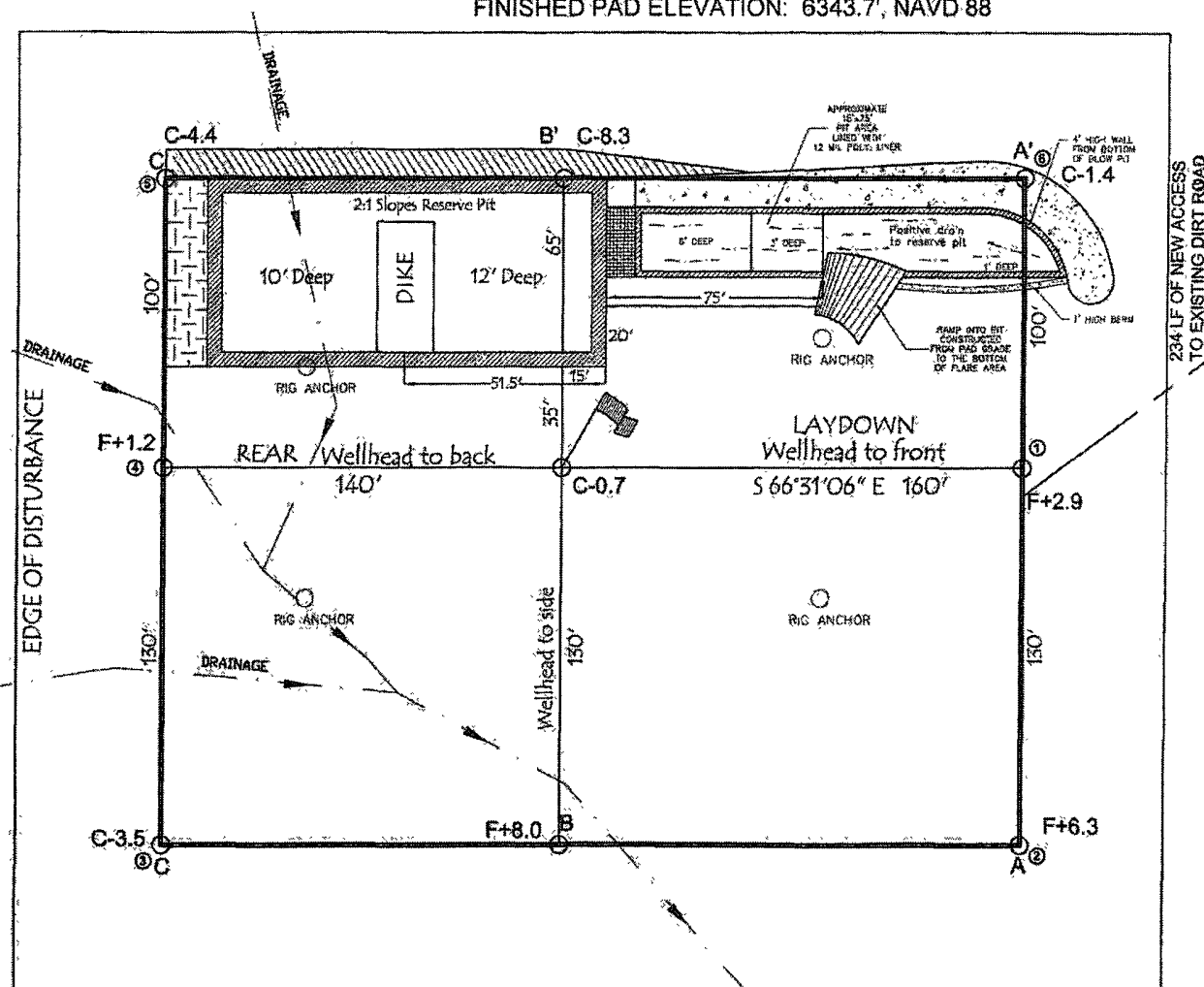
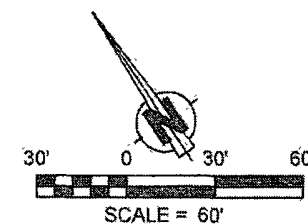
ConocoPhillips

Project: San Juan Business Unit, Regulatory, Location Site Layout, 06/28/2007 - 06/29/07

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

VAUGHN #15N

2405' FSL & 1670' FEL
LOCATED IN THE NW/4 SE/4 OF SECTION 28,
T26N, R6W, N.M.P.M.₁
RIO ARRIBA, NEW MEXICO
GROUND ELEVATION: 6344', NAVD 88
FINISHED PAD ELEVATION: 6343.7', NAVD 88



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.

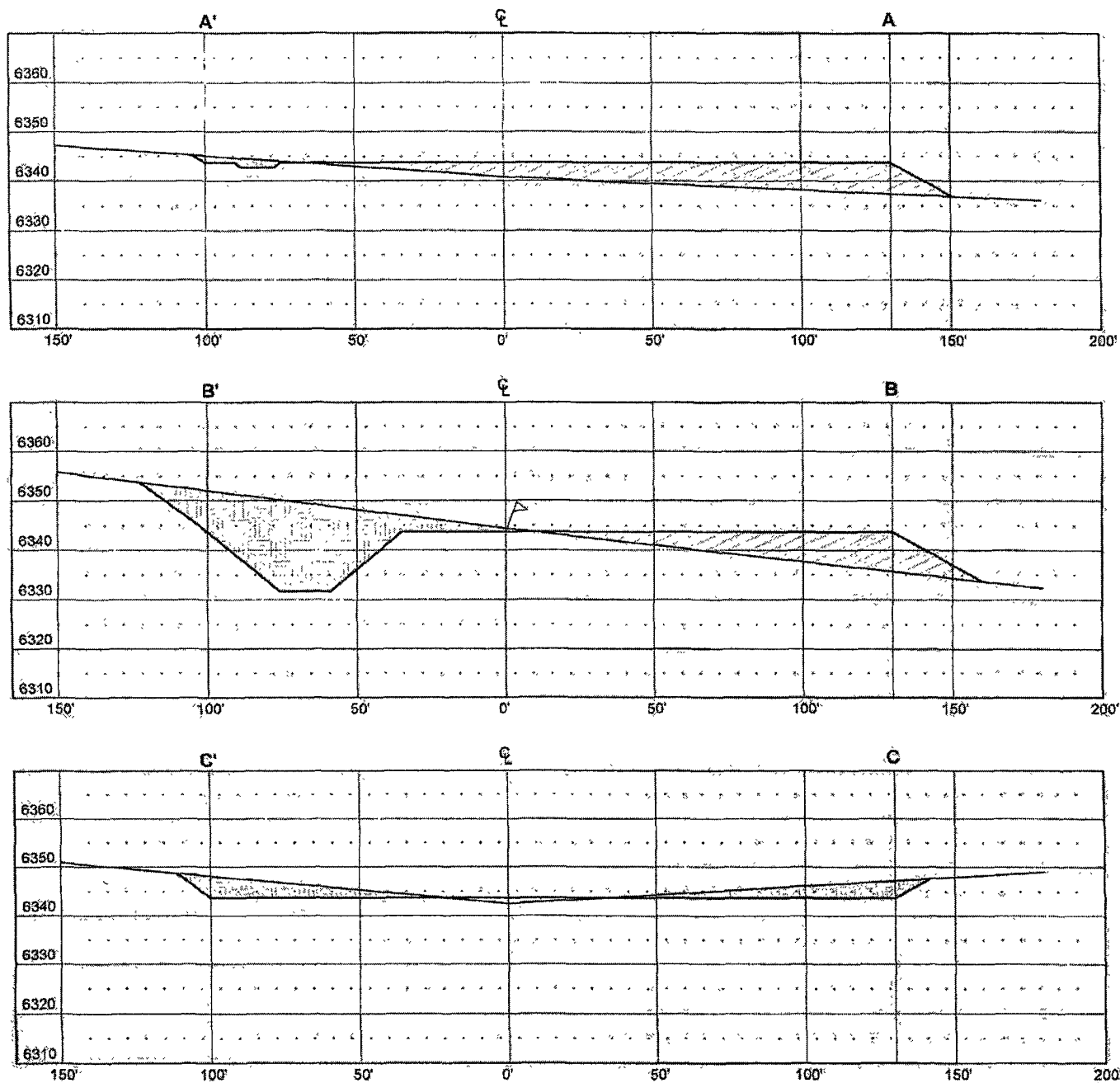
~~SECRET~~

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

LATITUDE: 36.45678°N
LONGITUDE: 107.46988°W
DATUM: NAD 83

BURLINGTON RESOURCES O&G CO LP

VAUGHN #15N
2405' FSL & 1670' FEL
LOCATED IN THE NW/4 SE/4 OF SECTION 28,
T26N, R6W, N.M.P.M.,
RIO ARRIBA, NEW MEXICO
GROUND ELEVATION: 6344', NAVD 88
FINISHED PAD ELEVATION: 6343.7', 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.: COPC079
DATE: 07/09/07



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