

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RCVD FEB 27 '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-080668 Unit Reporting Number NMNM-78408A-MV NMNM 78408B-DK
1b. Type of Well GAS		6. If Indian, All. or Tribe
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name San Juan 27-4 Unit	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name 9. Well Number #59N	
4. Location of Well Unit B (NWNE), 175' FNL & 1735' FEL Unit O (SWSE), 815' FSL & 2348' FEL Latitude 36.59716 N. Longitude 107.25502 W. Latitude 36.59444 N. Longitude 107.325293 W.	10. Field, Pool, Wildcat Blanco Mesaverde/Basin Dakota Sec., TWN, Rge, Mer. (NMPM) Sec. 09, T27N, R4W Sec. 04, T27N, R4W API # 30-045-039-30475	
14. Distance in Miles from Nearest Town 56.2/Bloomfield, NM	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 815'	17. Acres Assigned to Well MV/DK 319.20 E/2	
16. Acres in Lease 2557.800	18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 483' from San Juan 27-4 Unit 139A - MV	
19. Proposed Depth 8500'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 7163' GL	22. Approx. Date Work will Start 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	
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 8 FEB 27 2008

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

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

1/31/08
HOLD ON - 1/31/08
AS Drilled C-102

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

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

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

OIL CONSERVATION DIVISION

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

FEB 05 2008

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

☐ AMENDED REPORT

Bureau of Land Management

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30475	² Pool Code 72319/71599	³ Pool Name MESA VERDE/DAKOTA
⁴ Property Code 7452	⁵ Property Name SAN JUAN 27-4 UNIT	⁶ Well Number 59 N
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES O&G CO LP	⁹ Elevation 7163'

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
B	9	27N	4W		175'	NORTH	1735'	EAST	RIO ARriba

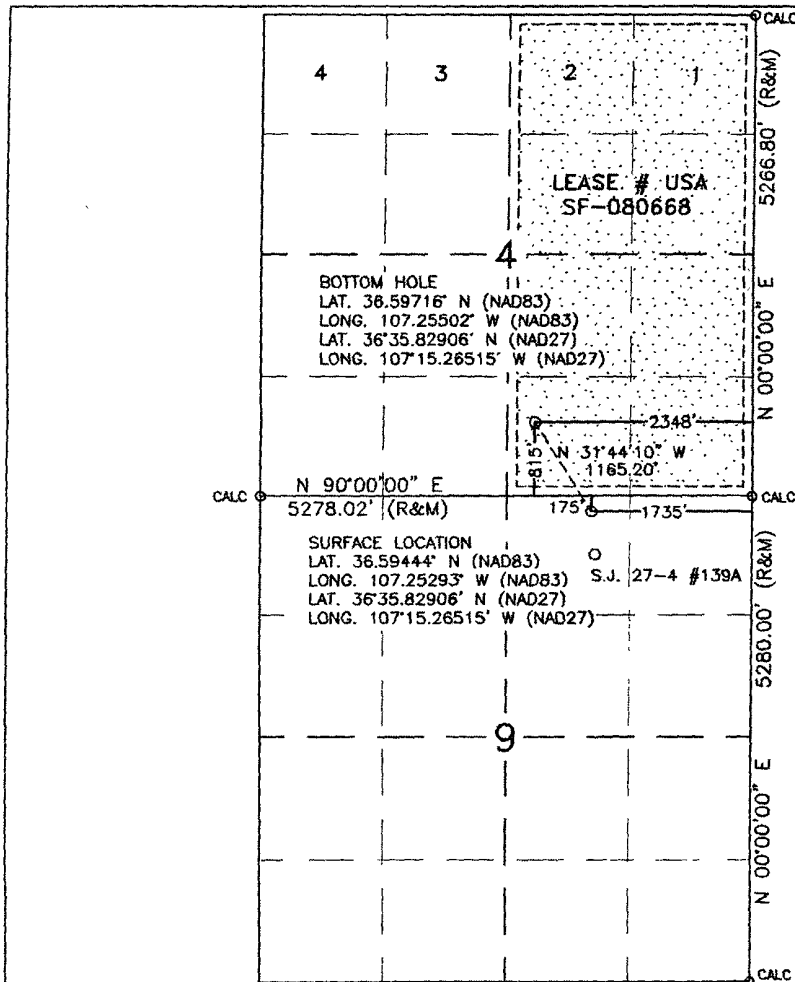
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	4	27N	4W		815'	SOUTH	2348'	EAST	RIO ARriba

¹² Dedicated Acres 319.20 Acres - (E/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.

Jamie Goodwin 02/01/2008
Signature Date

Jamie Goodwin
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.

APRIL 3, 2006

Date of Survey

Signature and Seal of Professional Surveyor:

David R. Russell



DAVID RUSSELL

Certificate Number 10201

District I

1525 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.

30-039-30475

5. Indicate Type of Lease

STATE ☐FEE ☐

6. State Oil & Gas Lease No.

USA SF-080668

7. Lease Name or Unit Agreement Name

San Juan 27-4 Unit

8. Well Number

#59N

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 LP

3. Address of Operator

3401 E. 30TH STREET, FARMINGTON, NM 87402

4. Well Location

Unit Letter B : 175' feet from the North line and 1735' feet from the East line
Section 9 Township 27N Rng 4W NMPM County Rio Arriba

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

7163'

Pit or Below-grade Tank Application

☐ or Closure ☐

Pit type

New Drill

Depth to Groundwater

<50

Distance from nearest fresh water well

>100

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 ☐

SUBSEQUENT REPORT OF:

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

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, 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

Jamie Goodwin

TITLE

Regulatory Technician

DATE

1/31/08

Type or print name

Jamie Goodwin

E-mail address:

joodwin@conocophillips.com

Telephone No.

505-326-9784

For State Use Only

APPROVED BY

TITLE

Deputy Oil & Gas Inspector,

DATE

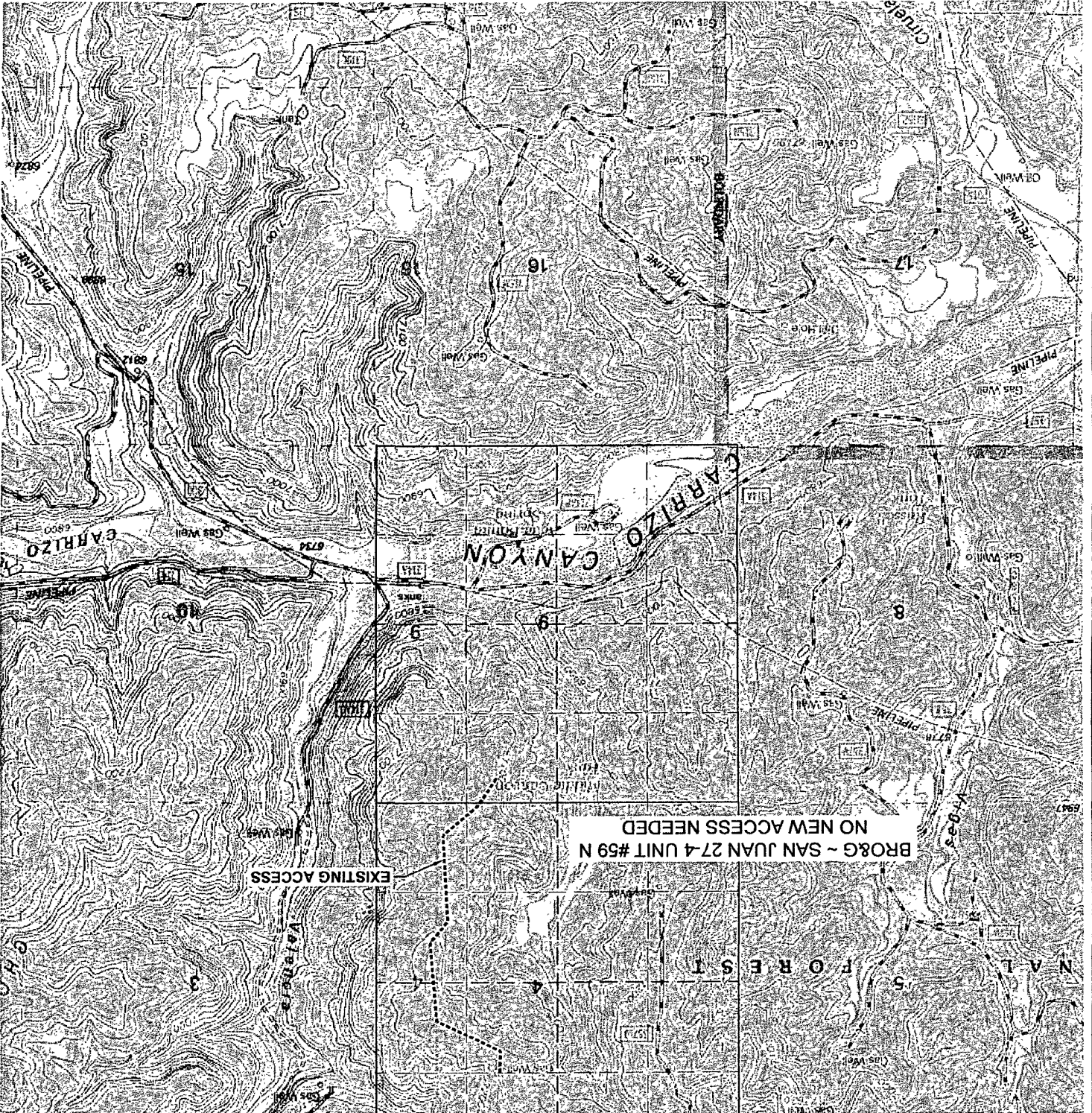
FEB 27 2008

Conditions of Approval (if any):

District #3

U.S.G.S. QUAD: VIGAS CANYON
 SCALE: 1" = 2000' (1:24,000)
 JOB No.: C0PC036
 DATE: 06/15/07

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



BURLINGTON RESOURCES O&G CO LP
 SAN JUAN 27-4 UNIT #59 N
 175' FNL & 1735' FEL
 LOCATED IN THE NW/4 NE/4 OF SECTION 9,
 T27N, R4W, N.M.P.M.,
 RIO ARriba COUNTY, NEW MEXICO
 GROUND ELEVATION: 7163', NAVD 88

LATITUDE: 36.59444°N
 LONGITUDE: 107.25293°W
 DATUM: NAD 83

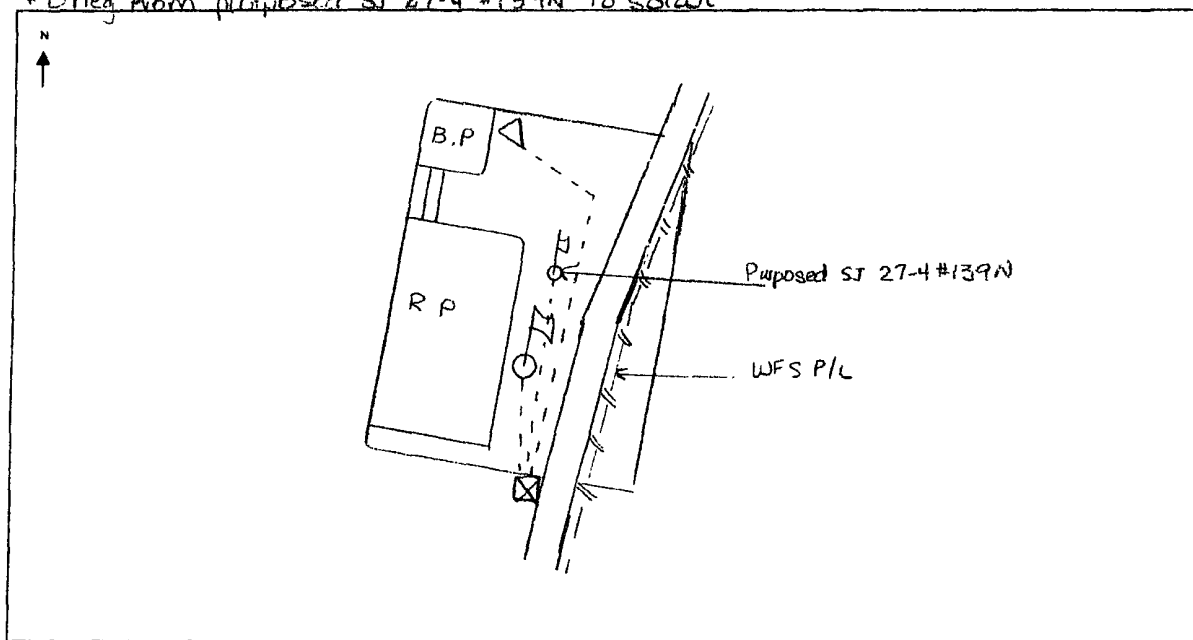


TECHNICAL SERVICES
A CORROSION COMPANY

CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME ST 27-4 # 59N LEGALS B-9-27-4 COUNTY Rio Arriba

PURPOSED C.P. SYSYTEM: Drill GB on NW corner of location. Set two well solars on SE edge (W side of access). Trench approx 450' of positive cable from GB to solar. Trench approx 100' of #B neg cable from proposed ST 27-4 #141B to solar. Trench approx 200' of #B neg from proposed ST 27-4 #139N to solar.



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

COMMENTS: Drill GB and set 2 well solar on well drilled first

NEAREST POWER SOURCE N/A DISTANCE: _____

PIPELINES IN AREA: WFS P/L

TECHNICIAN: Michael Hoffman DATE: 7/18/2007

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 27-4 UNIT 59N

DEVELOPMENT

Lease:		AFE #: WAN.ZA2.7657				AFE \$:	
Field Name: hBR_SAN JUAN 27-4 UNIT		Rig: XXX Deferred PDT		State: NM	County: RIO ARRIBA		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist: Head, Chip F		Phone: 505-326-9772		Prod. Engineer:		Phone:	
Res. Engineer: Prabowo, Wahyu		Phone: 505-326-9797		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
R20076	DAKOTA(R20076)						
R20002	MESAVERDE(R20002)						
Location: Surface Datum Code: NAD 27							
Latitude: 36.594431	Longitude: -107.252331	X:	Y:	Section: 09		Range: 004W	
Footage X: 1735 FEL	Footage Y: 175 FNL	Elevation: 7163	(FT)	Township: 027N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27							
Latitude: 36.597151	Longitude: -107.254421	X:	Y:	Section: 04		Range: 004W	
Footage X: 2348 FEL	Footage Y: 815 FSL	Elevation:	(FT)	Township: 027N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2020		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 7179 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	6979	☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 169 cuft. Circulate cement to surface.	
OJAM	3441	3738	☐				
KRLD	3621	3558	☐				
FRLD	3714	3465	☐			Possible Gas	
PCCF	4061	3118	☐				
LEWS	4151	3028	☐				
Intermediate Casing	4251	2928	☐			8 3/4" hole. 7" 20/23 ppf J-55, STC/LTC casing. Circulate cement to surface. Cement with 990 cu.ft.	
CHRA	5017	2162	☐				
UCLFH	5631	1548	☐			Gas	
MASSIVE CLIFF HOUSE	5833	1346	☐	468		Gas	
MENF	5895	1284	☐				
PTLK	6205	974	☐				
MNCS	6763	416	☐				
GLLP	7386	-207	☐				
GRHN	8171	-992	☐				
GRRS	8237	-1058	☐				
TWLS	8292	-1113	☐	1800		Gas	
CBRO	8381	-1202	☐				
CBRL	8428	-1249	☐				
OAK CANYON	8480	-1301	☐			TD 20' below T/Oak Cyn	
TOTAL DEPTH DK	8500	-1321	☐			6-1/4" Hole. 4-1/2", 10.6/11.6 ppf, J-55 STC/LTC casing. Cement with 550 cuft. Circulate cement a minimum of 100' inside the previous casing string.	

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 59N

DEVELOPMENT

Reference Wells:		
Reference Type	Well Name	Comments
Production	27-4 59M	SE 4 -27N-4W

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

TD Logs:	☐ Triple Combo	☐ Dipmeter	☐ RFT	☐ Sonic	☐ VSP	☐ TDT	☒ Other
GR_CBL, mudlog 100' above GRHN to TD							

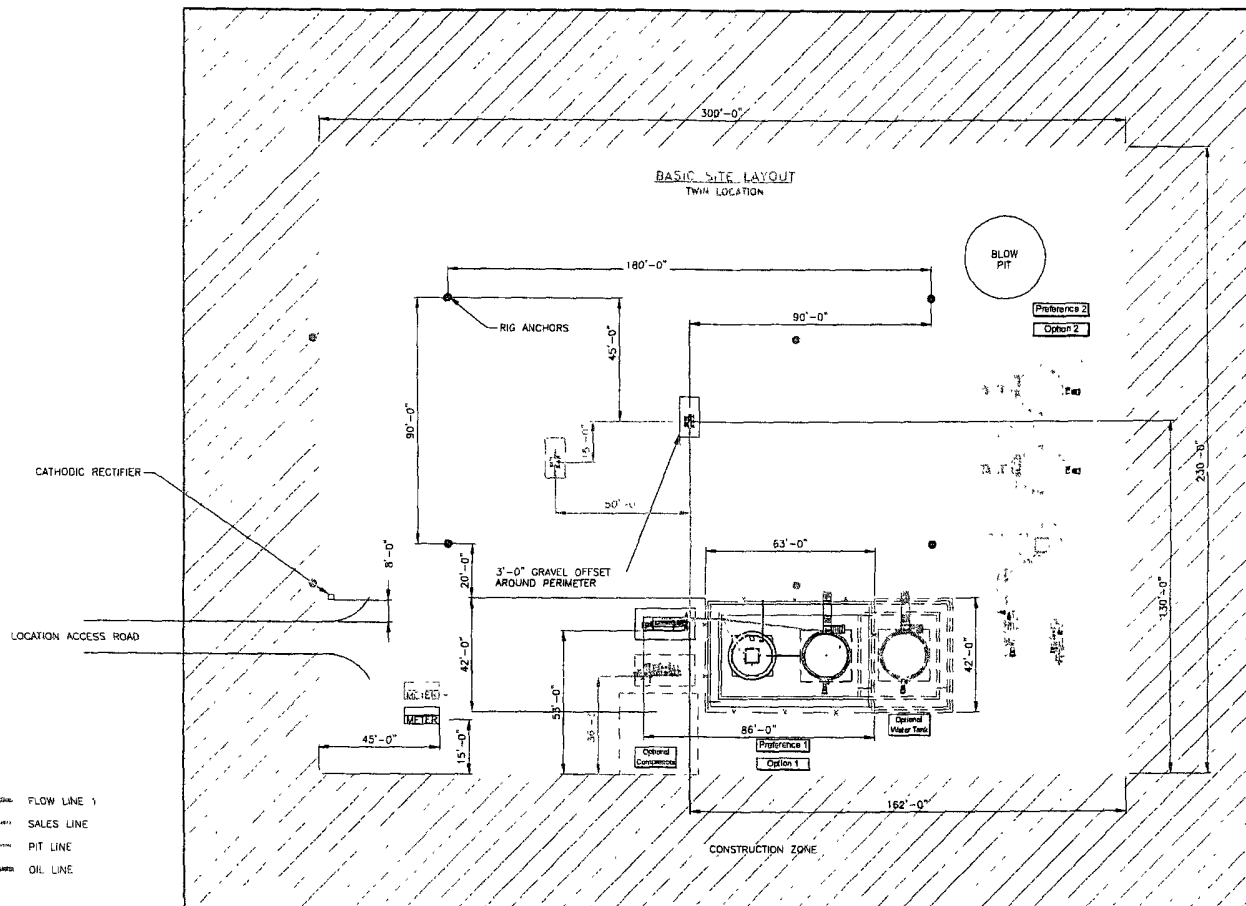
Additional Information:					
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 27-4 #59N
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 7178.0ft (Original Well Elev)
Project:	La Plata County, CO	MD Reference:	WELL @ 7178.0ft (Original Well Elev)
Site:	Monty's Site for directional MV/DK wells	North Reference:	True
Well:	SJ 27-4 #59N	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 27-4 #59N		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,607 6	3,441 0	Ojo Alamo		0 00		
3,798 9	3,621 0	Kirtland		0 00		
3,896 6	3,714 0	Fruitland		0 00		
4,250 6	4,061 0	Pictured Cliffs		0 00		
4,340 9	4,151 0	Lewis		0 00		
5,206 9	5,017 0	Chacra		0 00		
5,820 9	5,631 0	Uper Cliffhouse		0 00		
6,022 9	5,833 0	Mass Cliffhouse		0 00		
6,084 9	5,895 0	Menefee		0 00		
6,394 9	6,205 0	Pt Lookout		0 00		
6,952 9	6,763 0	Mancos Shale		0 00		
7,575 9	7,386 0	Gallup		0 00		
8,360 9	8,171 0	Greenhorn		0 00		
8,426 9	8,237 0	Graneros		0 00		
8,481 9	8,292 0	Two Wells		0 00		
8,570 9	8,381 0	Upper Cubero		0 00		
8,617 9	8,428 0	Lower Cubero		0 00		
8,669 9	8,480 0	Oak Canyon		0 00		
8,689 9	8,500 0	TD		0 00		



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		 SAN JUAN BUSINESS UNIT			CONOCOPHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT		
	DISCIPLINE			REVIEWED		DATE		NO.	DESCRIPTION		CLIENT No.	CLIENT APPR.	APPR. DATE								
	PROCESS													CLIENT NAME	CREATION DATE 6/20/07						
	MECHANICAL																				
	PIPING																				
	ELECTRICAL																				
	T & C																				
	CIVIL/STRUCTURAL																				
PROJECT																					
DESCRIPTION			DATE		BY		CHKD		ENGR		DSCR		PRJ								

\\hpccs\5\gaspr\back\Andres\Regulatory\San Juan Location Site Layout.dwg, 06/28/2007 - 08:39pm

LATITUDE: 36.59444°N
 LONGITUDE: 107.25293°W
 DATUM: NAD 83

BURLINGTON RESOURCES O&G CO LP

SAN JUAN 27-4 UNIT #59 N

175' FNL & 1735' FEL

LOCATED IN THE NW/4 NE/4 OF SECTION 9,

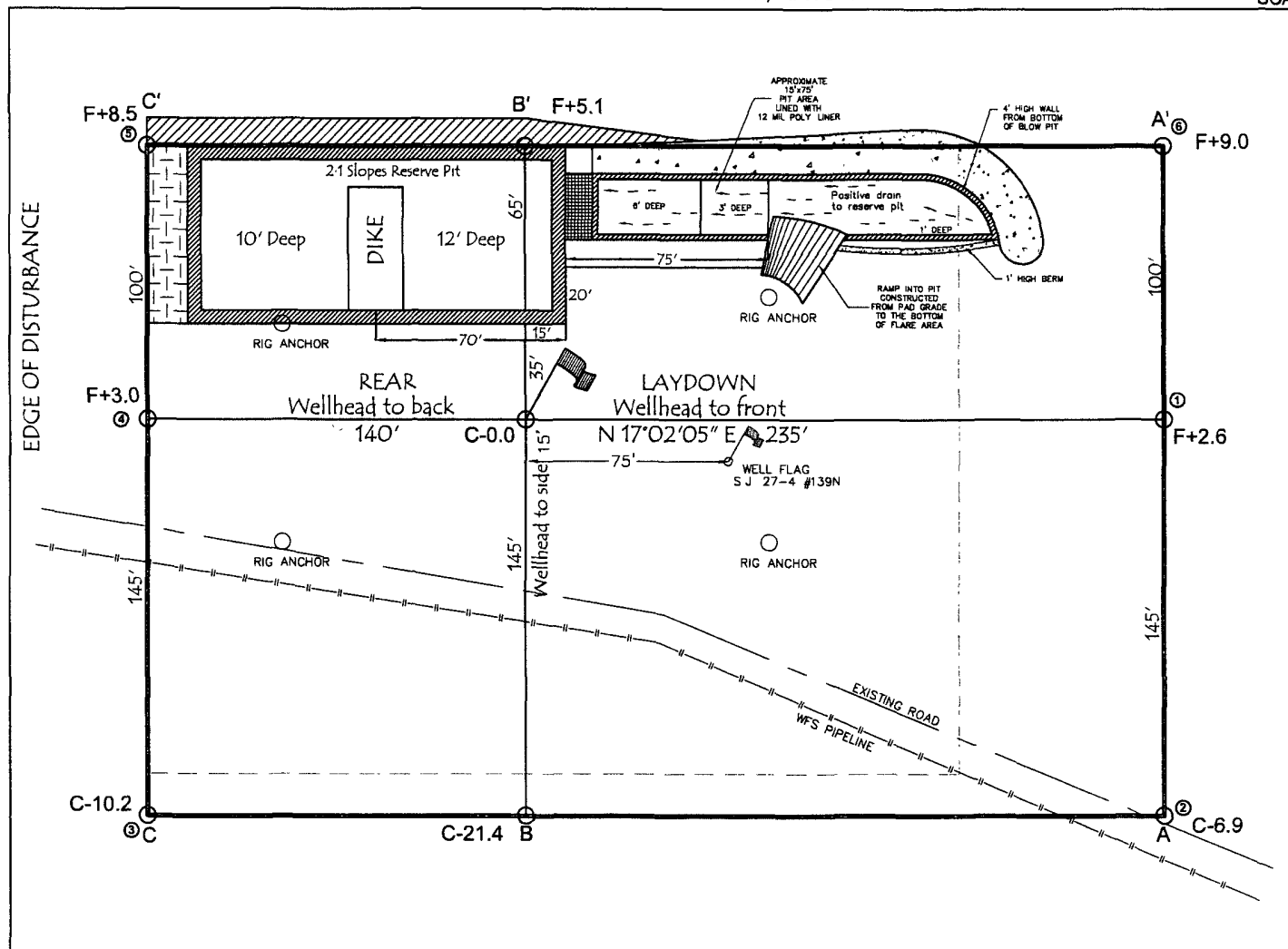
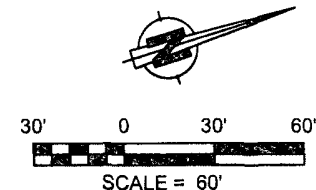
T27N, R4W, N.M.P.M.,

RIO ARriba COUNTY, NEW MEXICO

GROUND ELEVATION: 7163', NAVD 88

FINISHED PAD ELEVATION: 7162.9', NAVD 88

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



345' x 475' = 3.76 ACRES OF DISTURBANCE

SCALE: 1" = 60'

JOB No.: COPC036

DATE: 06/15/07; REV1

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.

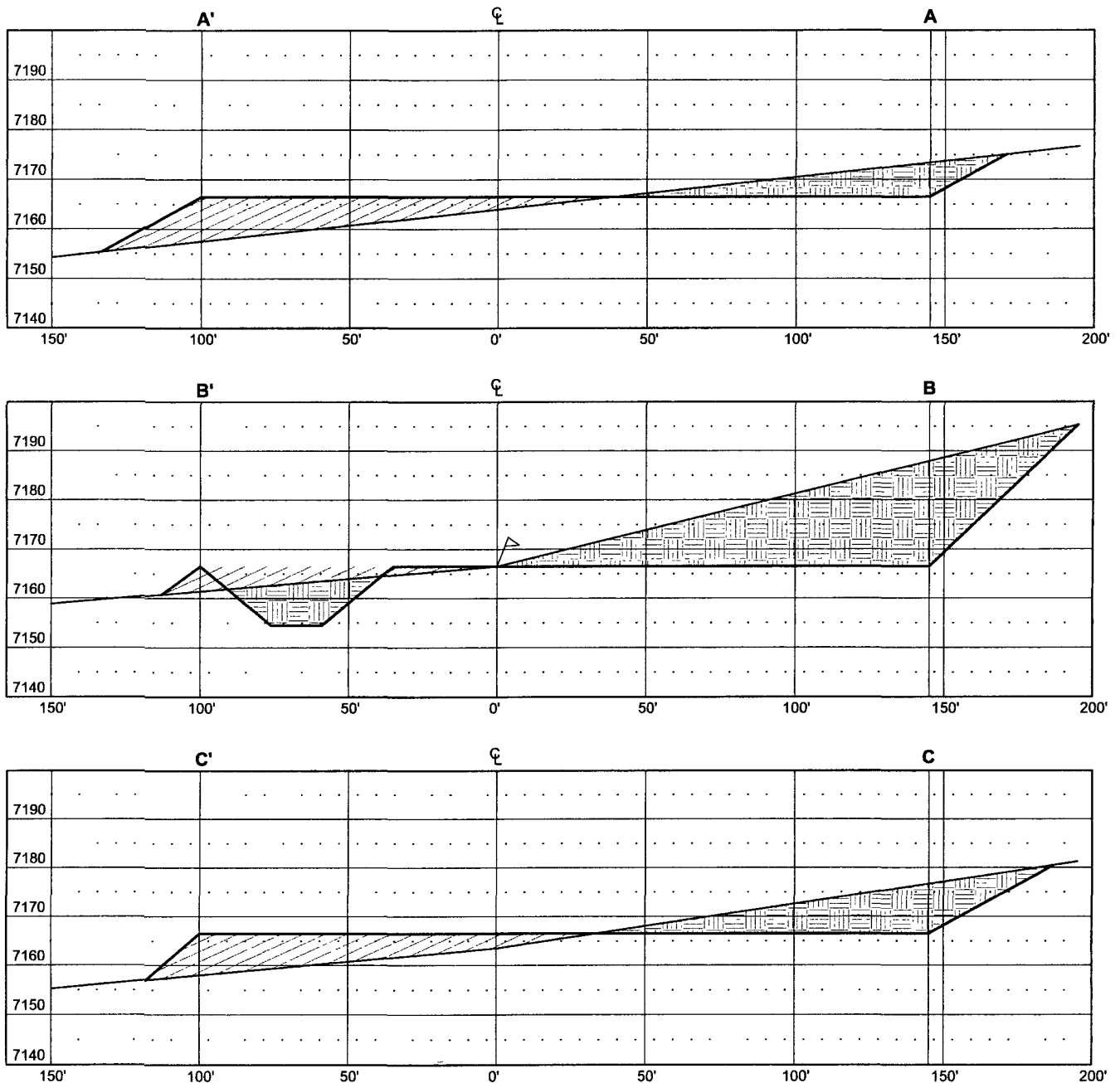
CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED, BURIED PIPELINES OR CABLES ON WELL PAD, IN CONSTRUCTION ZONE AND/OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.



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

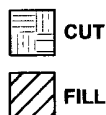
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BURLINGTON RESOURCES O&G CO LP
SAN JUAN 27-4 UNIT #59 N
175' FNL & 1735' FEL
LOCATED IN THE NW/4 NE/4 OF SECTION 9,
T27N, R4W, N.M.P.M.,
RIO ARriba COUNTY, NEW MEXICO
GROUND ELEVATION: 7163', NAVD 88
FINISHED PAD ELEVATION: 7162.9', NAVD 88



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.: COPC036
DATE: 06/15/07; REV1



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