

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RCVD DEC 17 '07

OIL CONS. DIV.

DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	RECEIVED NOV 13 2007 Bureau of Land Management Farmington Field Office	5. Lease Number SF-079393 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 San Juan 27-5 Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700		8. Farm or Lease Name
		9. Well Number 84N
4. Location of Well Surface: Unit E (SWNW), 1620' FNL & 1160' FWL, Bottomhole: Unit D (NWNW), 1270' FNL & 310' FWL, Surface: Latitude 36.60565'N Longitude 107.35072'W		10. Field, Pool, Wildcat Basin Dakota/Blanco Mesaverde 11. Sec., Twn, Rge, Mer. (NMPM) E Sec. 3, T27N, R05W API # 30-039-30423
14. Distance in Miles from Nearest Town 9 miles from Gobernador	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1160'		
16. Acres in Lease 2541.030 acres	17. Acres Assigned to Well MV/DK 319.36 (W/2)	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 50' SJ 27-5 #84E (DK)		
19. Proposed Depth 7905'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6629' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Patsy Clugston</u> Patsy Clugston, Regulatory Specialist	<u>11/8/07</u> Date	

PERMIT NO.

APPROVAL DATE

APPROVED BY D. Montee

TITLE AFM

DATE 12/13/07

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

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

NMOCD

DEC 20 2007

AV

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
GENERAL REQUIREMENTS

HOLD C104 FOR directional survey
gas drilled plat
This action is subject to technical and
procedural review pursuant to 43 CFR 3165.3
and appeal pursuant to 43 CFR 3165.4

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
PO Drawer 00, Artesia, NM 88211-0719

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

RECEIVED

NOV 13 2007

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION

Bureau of Land Management
Farmington Field Office

*API Number 03-039-30423	*Pool Code 71599/72319	*Pool Name BASIN DAKOTA/BLANCO MV
*Property Code 7454	*Property Name SAN JUAN 27-5 UNIT	*Well Number 84N
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY, LP	*Elevation 6629'

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
E	3	27N	5W		1620	NORTH	1160	WEST	RIO ARriba

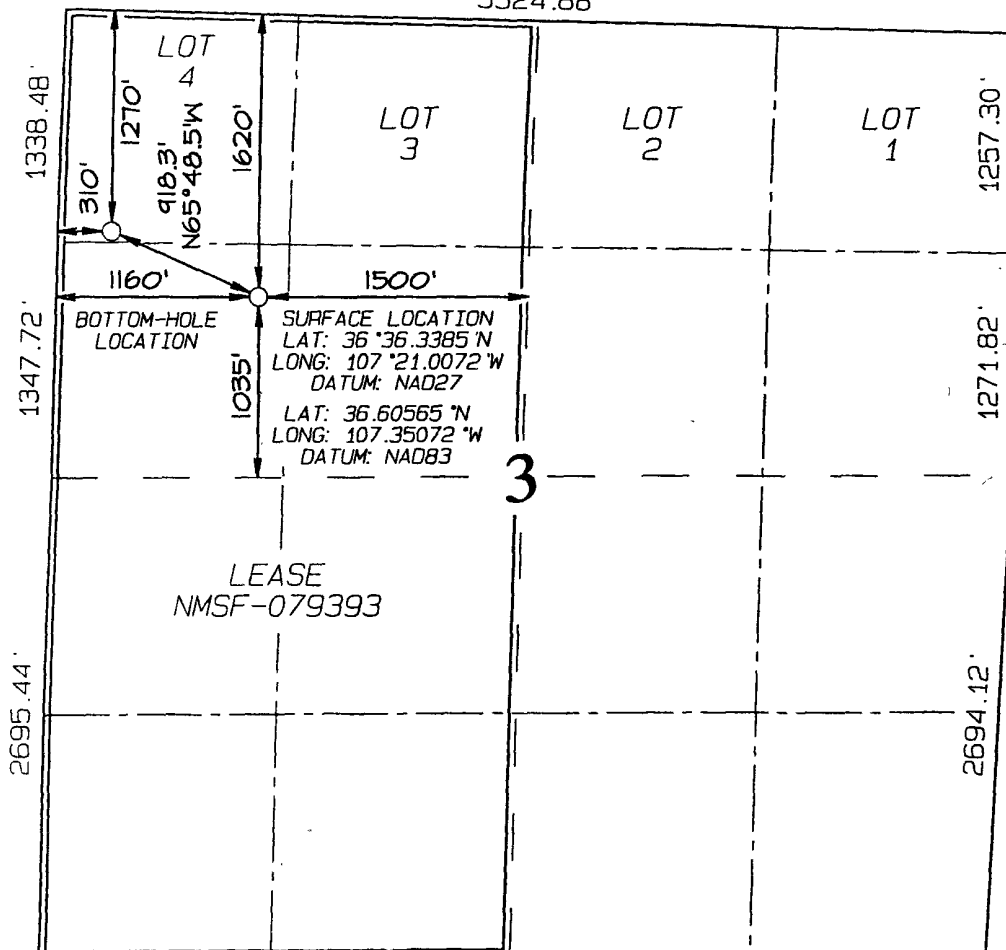
11 Bottom Hole Location If Different From Surface

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	3	27N	5W	(K)	1270	NORTH	310	WEST	RIO ARriba

12 Dedicated Acres MV/DK 319.36 W2	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

5324.88'



5328.18'

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Tracey N. Monroe
Signature

Tracey N. Monroe

Printed Name

Regulatory Assistant

Title

7/28/06

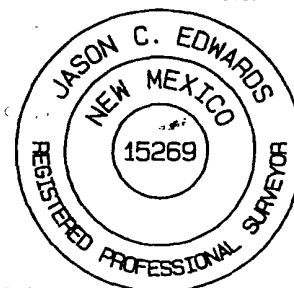
Date

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

Date of Survey: **MAY 17, 2006**

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number 15269

Submit 3 Copies To Appropriate District Office
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

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
May 27, 2004

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-039- <u>30423</u>
5. Indicate Type of Lease STATE ☐ FEE ☐
6. State Oil & Gas Lease No. Federal Lease USA SF-079393
7. Lease Name or Unit Agreement Name San Juan 27-5 Unit
8. Well Number #84N
9. OGRID Number 14538
10. Pool name or Wildcat Basin Dakota / Blanco Mesaverde

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 E : 1620' feet from the North line and 1160' feet from the West line Rio Arriba
Section 3 Township 27N Rng 5W NMPM County San Juan

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
6629' GL

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 Pit ☒

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, 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 Patsy Clugston TITLE Regulatory Specialist DATE 11/8/2007

Type or print name Patsy Clugston E-mail address: clugspl@conocophillips.com Telephone No. 505-326-9518
For State Use Only

APPROVED BY [Signature] TITLE Deputy Oil & Gas Inspector, DATE DEC 20 2007
Conditions of Approval (if any): District #3

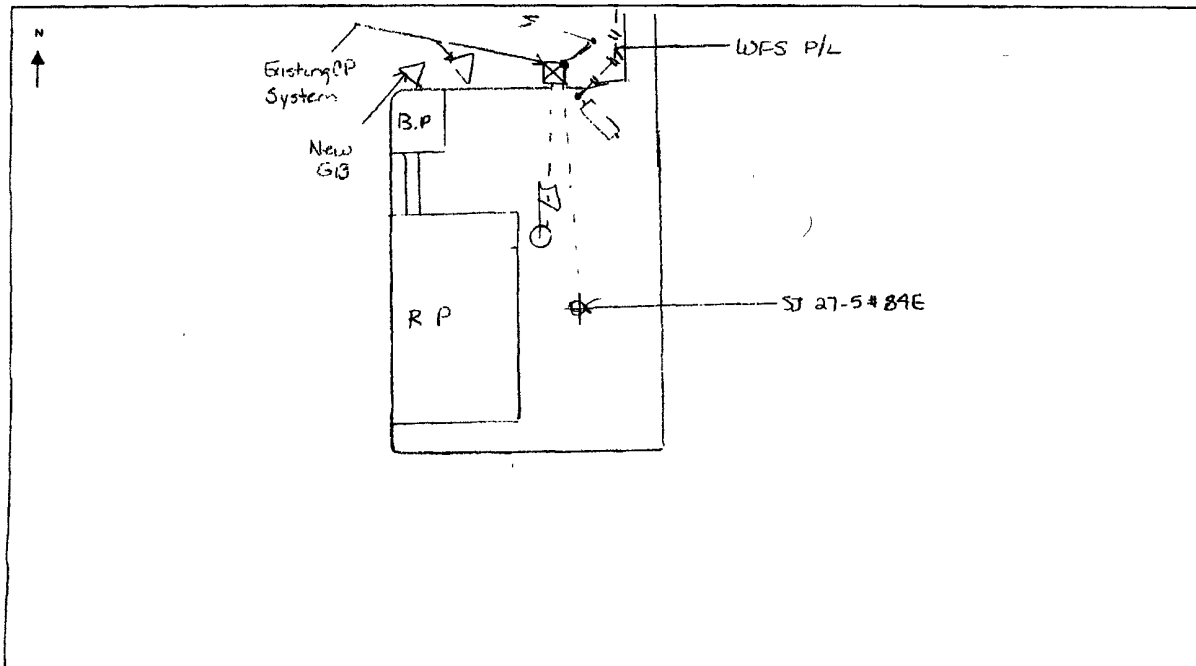


TECHNICAL SERVICES
A CORROSION COMPANY

CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME SJ 27-5 #84N LEGALS E-3-27-5 COUNTY Rio Arriba

PURPOSED C.P. SYSTYEM: Drill GB on NW corner of location and tie into existing CP system. Trench approx 200' of #8 neg. cable from proposed well to rectifier.



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

COMMENTS: already drilled / all equip moved

NEAREST POWER SOURCE Existing Rect SJ 27-5 #84E DISTANCE: same loc
PIPELINES IN AREA: WFS P/L

TECHNICIAN: Michael Hinojosa DATE: 5/24/07

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 27-5 UNIT 84N

DEVELOPMENT

Lease:		AFE #: WAN.ZA2.2773/2774DK				AFE \$:	
Field Name: hBR_SAN JUAN 27-5 UNIT		Rig: Aztec Rig 730		State: NM	County: RIO ARRIBA	API #:	
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist: Head, Chip F		Phone: 505-326-9772		Prod. Engineer:		Phone:	
Res. Engineer: Prabowo, Wahvu		Phone: 505-326-9797		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
R20002	MESAVERDE(R20002)						
R20076	DAKOTA(R20076)						
Location: Surface Datum Code: NAD 27							
Latitude: 36.605070		Longitude: -107.350100		X:	Y:	Section: 03	Range: 005W
Footage X: 1160 FWL		Footage Y: 1620 FNL		Elevation: 6629 (FT)	Township: 027N		
Tolerance:							
Location: Bottom Datum Code: NAD 27							
Latitude: 36.605641		Longitude: -107.350120		X:	Y:	Section: 3	Range: 5W
Footage X: 310 FWL		Footage Y: 1270 FNL		Elevation: (FT)	Township: 27N		
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2008		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6641 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	215	6426	☐			12-1/4" hole, 9-5/8" 32.3 ppf, H-40, STC casing. Cement w/ 170 cu. ft. Circulate cmt to surface.	
OJO ALAMO	2799	3842	☐			Surface twin with 27-5 84E	
KIRTLAND	2983	3658	☐				
FRUITLAND	3238	3403	☐				
PICTURED CLIFFS	3468	3173	☐				
LEWIS	3637	3004	☐				
Intermediate Casing	3737	2904	☐			8-3/4" hole. 7", 23.0 ppf, L-80, LT&C casing. Cement with 875 cu. ft. Circulate cement to surface.	
HUERFANITO BENTONITE	4051	2590	☐				
CHACRA	4421	2220	☐				
MASSIVE CLIFF HOUSE	5215	1426	☐				
MENEFEE	5297	1344	☐				
MASSIVE POINT LOOKOUT	5641	1000	☐	700			
MANCOS	6009	632	☐				
UPPER GALLUP	6807	-166	☐				
GREENHORN	7571	-930	☐	2300			
GRANEROS	7636	-995	☐				
TWO WELLS	7670	-1029	☐				
UPPER CUBERO	7776	-1135	☐			estimated bottom perf ~ 7880' TVD (210' below top of Two Wells	
LOWER CUBERO	7823	-1182	☐			BHL reach ~ 919'	
OAK CANYON	7885	-1244	☐			Azimuth ~ 294 degrees	

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-5 UNIT 84N

DEVELOPMENT

Total Depth	7905	-1264	☐	6-1/4" hole. 4-1/2", 11.6 ppf, L-80, LT&C casing. Cement with 568 cu. ft. Circulate cement a minimum of 100 ft. inside the previous casing string. No open hole logs. Cased hole TDT with GR to surface. TD is ~235' below top of Two Wells
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Reference Wells:		
Reference Type	Well Name	Comments
Intermediate	San Juan 27-5 Unit 84E	NW3-27-5

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

TD Logs:	☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other
Mudlog from 100' above Greenhorn to TD.	

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

Comments: Location/Tops/Logging - DK 27N05W03NW2 MVNM027N005W03NW2

Zones - DK 27N05W03NW2 MVNM027N005W03NW2

General/Work Description - 5/1/07 Name changed to 84N from 84F (before 84N, it was named 84M) per Land (KL)
PIF-directional-11/7/05 DEFER UNTIL ISSUES ARE RESOLVED
NO LEWIS

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 27-5 #84N
Company:	ConocoPhillips-Lower 48	TVD Reference:	Generic Rig RKB @ 6644.0ft
Project:	San Juan Basin	MD Reference:	Generic Rig RKB @ 6644.0ft
Site:	Russell's Site for Directional MV/DK wells	North Reference:	True
Well:	SJ 27-5 #84N	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 27-5 #84N		
Design:	APD Directional Plan		

Planned Survey										
Measured Depth (ft)	Inclination (d)	Azimuth (d)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (d/100ft)	Build Rate (d/100ft)	Turn Rate (d/100ft)	
7,400.0	0.00	292.38	7,248.6	350.0	-850.0	919.2	0.00	0.00	0.00	
7,500.0	0.00	292.38	7,348.6	350.0	-850.0	919.2	0.00	0.00	0.00	
7,600.0	0.00	292.38	7,448.6	350.0	-850.0	919.2	0.00	0.00	0.00	
7,700.0	0.00	292.38	7,548.6	350.0	-850.0	919.2	0.00	0.00	0.00	
7,722.4	0.00	292.38	7,571.0	350.0	-850.0	919.2	0.00	0.00	0.00	
Greenhorn										
7,787.4	0.00	292.38	7,636.0	350.0	-850.0	919.2	0.00	0.00	0.00	
Graneros										
7,800.0	0.00	292.38	7,648.6	350.0	-850.0	919.2	0.00	0.00	0.00	
7,821.4	0.00	292.38	7,670.0	350.0	-850.0	919.2	0.00	0.00	0.00	
Two Wells										
7,900.0	0.00	292.38	7,748.6	350.0	-850.0	919.2	0.00	0.00	0.00	
7,927.4	0.00	292.38	7,776.0	350.0	-850.0	919.2	0.00	0.00	0.00	
Cubero										
7,974.4	0.00	292.38	7,823.0	350.0	-850.0	919.2	0.00	0.00	0.00	
Lower Cubero										
8,000.0	0.00	292.38	7,848.6	350.0	-850.0	919.2	0.00	0.00	0.00	
8,036.4	0.00	292.38	7,885.0	350.0	-850.0	919.2	0.00	0.00	0.00	
Oak Canyon										
8,056.3	0.00	292.38	7,904.9	350.0	-850.0	919.2	0.00	0.00	0.00	
4 1/2"										
8,056.4	0.00	292.38	7,905.0	350.0	-850.0	919.2	0.00	0.00	0.00	
TD - SJ 27-5 #84N PCP										

Targets										
Target Name	hit/miss target	Dip Angle (d)	Dip Dir. (d)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (m)	Easting (m)	Latitude	Longitude
SJ 27-5 #84N ICP	- plan hits target	0.00	0.00	3,737.0	350.0	-850.0	621,932.61	198,353.16	36° 36' 23.771" N	107° 19' 10.857" W
- Point										
SJ 27-5 #84N PCP	- plan hits target	0.00	0.00	7,905.0	350.0	-850.0	621,932.61	198,353.16	36° 36' 23.771" N	107° 19' 10.857" W
- Point										

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)		
215.0	215.0	9 5/8"	9.625	12.250		
3,888.4	3,737.0	7"	7.000	8.750		
8,056.3	7,904.9	4 1/2"	4.500	6.250		

ConocoPhillips or its affiliates

Planning Report

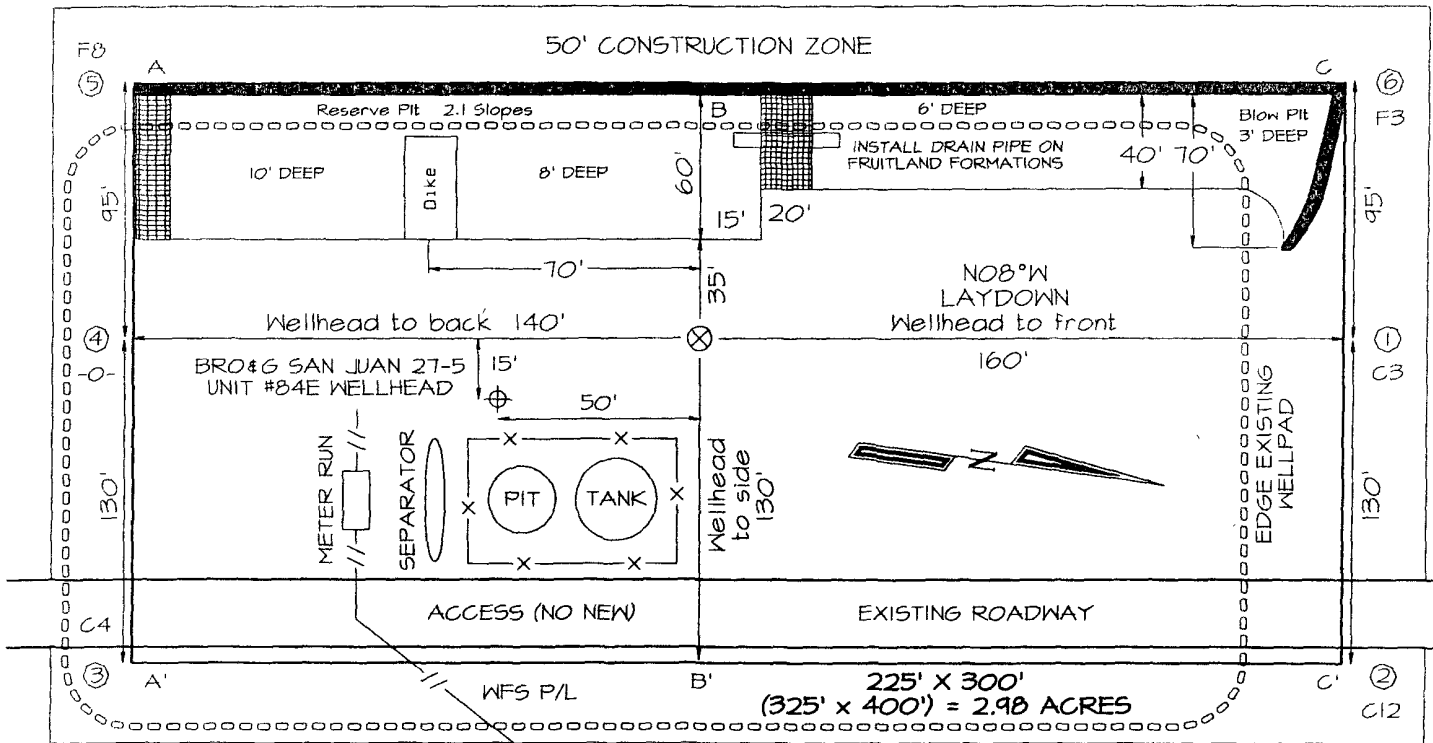
Database: EDM Central Planning Company: ConocoPhillips Lower 48 Project: San Juan Basin Site: Russell's Site for Directional MV/DK wells Well: SJ 27-5 #84N Wellbore: SJ 27-5 #84N Design: APD Directional Plan	Local Co-ordinate Reference: Well SJ 27-5 #84N TVD Reference: Genenc Rig RKB @ 6644 0ft MD Reference: Genenc Rig RKB @ 6644 0ft North Reference: True Survey Calculation Method: Minimum Curvature	
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Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (d)	Dip Direction (d)	
2,932 8	2,799 0	Ojo		0 00		
3,125 4	2,983 0	Kirtland		0 00		
3,386 8	3,238 0	Fruitland		0 00		
3,619 0	3,468 0	Pictured Cliffs		0 00		
3,788 4	3,637 0	Lewis		0 00		
4,202 4	4,051 0	Huerfano Bentonite		0 00		
4,572 4	4,421 0	Chacra		0 00		
5,366 4	5,215 0	Mass Cliffhouse		0 00		
5,448 4	5,297 0	Menefee		0 00		
5,792 4	5,641 0	Point Lookout		0.00		
6,160 4	6,009 0	Mancos		0 00		
6,958 4	6,807 0	Upper Gallup		0 00		
7,722 4	7,571 0	Greenhorn		0 00		
7,787 4	7,636 0	Graneros		0 00		
7,821 4	7,670 0	Two Wells		0 00		
7,927 4	7,776 0	Cubero		0 00		
7,974 4	7,823 0	Lower Cubero		0.00		
8,036 4	7,885 0	Oak Canyon		0 00		
8,056 4	7,905 0	TD		0 00		

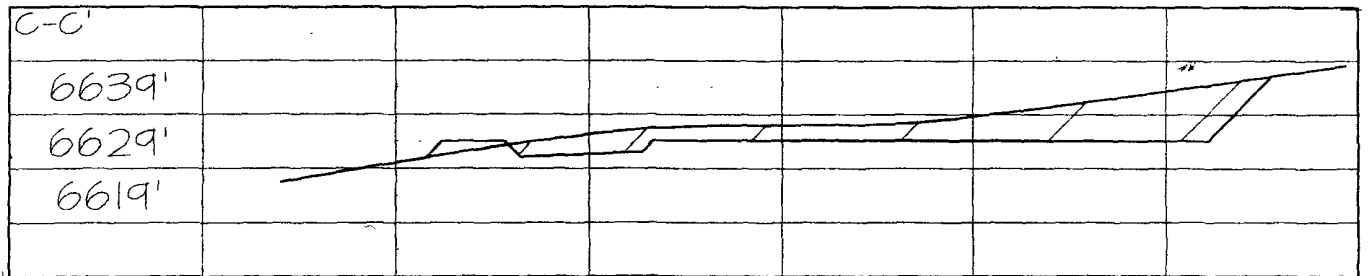
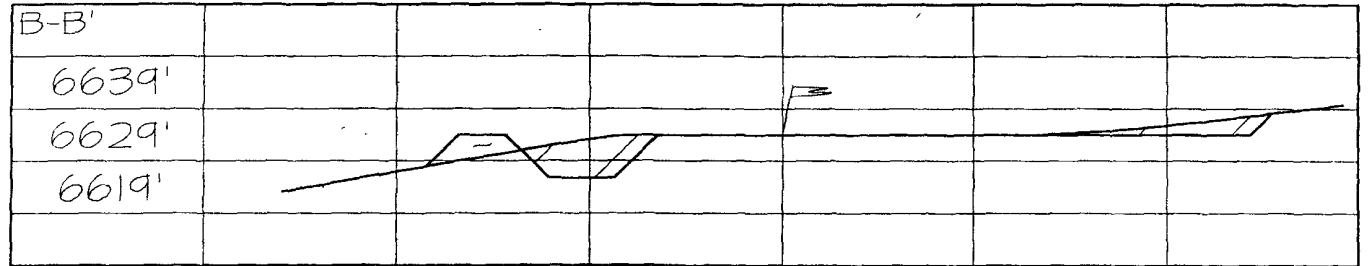
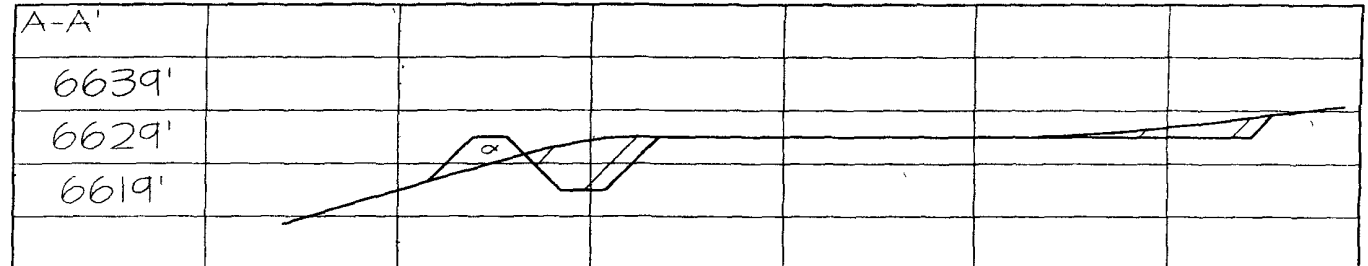
PLAT #1

BURLINGTON RESOURCES OIL & GAS COMPANY, LP
SAN JUAN 27-5 UNIT #84N, 1620' FNL & 1160' FWL
SECTION 3, T27N, R5W, NMPM, RIO ARriba COUNTY, NM
GROUND ELEVATION: 6629' DATE: MAY 17, 2006

LATITUDE: 36.60565° N
LONGITUDE: 107.35072° W
 DATUM: NAD1983



Reserve Pit Dike: to be 8' above Deep side (overflow - 3' wide and 1' above shallow side)
 Blow Pit: overflow pipe halfway between top and bottom and to extend over plastic liner and into blow pit



Note Contractor should call One-Call for location of any marked or unmarked buried pipelines or cables on well pad and/or access road at least two (2) working days prior to construction