

RCVD JAN 24 '08

OIL CONS. DIV.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

RECEIVED

SEP 19 2007

Bureau of Land Management
Farmington Field Office

1a. Type of Work DRILL	5. Lease Number SF-079520
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 28-5 Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name
4. Location of Well Surf: Unit B(NWNE), 1185' FNL & 1935' FEL BH: Unit A(NENE), 890' FNL & 740' FEL Surf: Latitude 36° 38.1738 N Longitude 107° 20.6147 W BH: Latitude 36° 38.2223 N Longitude 107° 20.3700 W	9. Well Number #77N 10. Field, Pool, Wildcat Blanco MV/Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) B Sec. 27, T28N, R5W API # 30-039-30363
14. Distance in Miles from Nearest Town 8 mile/Gobernador	12. County Rio Arriba
15. Distance from Proposed Location to Nearest Property or Lease Line 740'	13. State NM
16. Acres in Lease 1156.47	17. Acres Assigned to Well MV/DK 320 (N/2)
18. Distance from Proposed Location to Nearest Well, Drig. Compl. or Applied for on this Lease 50' from San Juan 28-5 #40	20. Rotary or Cable Tools Rotary
19. Proposed Depth 8264' TVD/8495' TMD	22. Approx. Date Work will Start
21. Elevations (DF, FT, GR, Etc.) 6917' GL	
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <i>Rhonda Rogers</i> Rhonda Rogers (Regulatory Technician)	9-18-07 Date

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

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

JAN 25 2008

NMOCD

HOLD C104 FOR

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 SEP 19 2007
Santa Fe, NM 87504-2088

Bureau of Land Management
Farmington Field Office

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-30363		*Pool Code 72319/71599	*Pool Name Blanco Mesaverde / Basin Dakota
*Property Code 7460	*Property Name SAN JUAN 28-5 UNIT		*Well Number 77N
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY, LP		*Elevation 6917'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Edn	Feet from the	North/South line	Feet from the	East/West line	County
B	27	28N	5W		1185	NORTH	1935	EAST	RIO ARriba

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Edn	Feet from the	North/South line	Feet from the	East/West line	County
A	27	28N	5W		890	NORTH	740	EAST	RIO ARriba

*Dedicated Acres 320 acres N/2 MV/DK	*Joint or Infill	*Consolidation Code	*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 SURFACE LOCATION LAT: 36.63624°N LONG: 107.34418°W DATUM: NAD83 LAT: 36.38.1738°N LONG: 107.20.6147°W DATUM: NAD27 LEASE USA SF-079520 27 5280.00'	1185' 1445' 605' 1231.6' N76°48.9'E 1935' 740' 890' BOTTOM-HOLE LOCATION LAT: 36.38.2223°N LONG: 107.20.3700°W DATUM: NAD27	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <i>Kandis Roland</i> Signature Kandis Roland Printed Name Regulatory Technician Title March 13 2007 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 18, 2006 Signature and Seal of Professional Surveyor  JASON C. EDWARDS Certificate Number 15269

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- 303603

5. Indicate Type of Lease

STATE ☐FEE ☐

6. State Oil & Gas Lease No.

Federal Lease # SF-079520

7. Lease Name or Unit Agreement Name

San Juan 28-5 Unit

8. Well Number

#77N

9. OGRID Number

14538

10. Pool name or Wildcat

Blanco MV/Basin DK

SUNDY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPLN 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

Section 27

1185'

feet from the

North

line and

1935'

feet from the

East

line

Township 28N

Rng 5W

NMPM

County

Rio Arriba

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

6917'

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

Pit Liner Thickness:

N/A

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, ~~Unlined~~ 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, 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

TITLE

Regulatory Technician

DATE

7-30-07

Type or print name

Rhonda Rogers

E-mail address:

rogerr@conocophillips.com

Telephone No.

505-599-4018

For State Use Only

APPROVED BY

TITLE

Deputy Oil & Gas Inspector,

DATE

JAN 25 2008

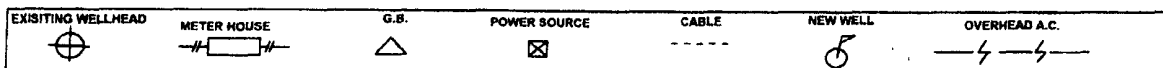
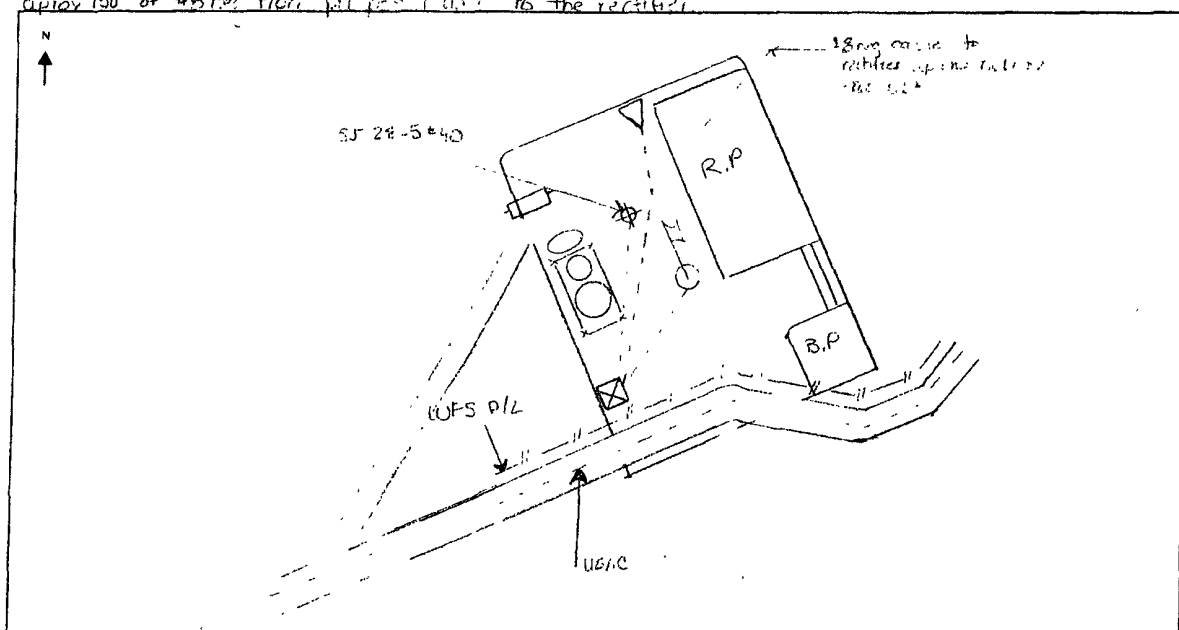
Conditions of Approval (if any):

District #3



WELL NAME ST 28-5 #77N LEGALS B-27-28-5 COUNTY Rio Arriba

PURPOSED C.P. SYSYTEM: Drill GB in Area of the location. Set rectifier on SW edge of location. Trench approx 70' at A.C. from rectifier to the location with rectifier. Trench approx 300' at position of the location from the GB to the rectifier. Trench approx 200' at #8 main water line to the rectifier. Trench approx 150' at #8 main water line to the rectifier.



COMMENTS: Rect. 7 OE need to be catalog of maintaining c/w's

NEAREST POWER SOURCE: USAC DISTANCE: 70'
PIPELINES IN AREA: WFG PL

TECHNICIAN: Michael J. Moore DATE: 1-22-07

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 77N

DEVELOPMENT

Lease:		AFE #: WAN.ZA2.4511&4512				AFE \$:	
Field Name: hBR_SAN JUAN 28-5 UNIT		Rig: XXX 2009 Directional		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						
FRR	BASIN DAKOTA (PRORATED GAS)						
RON	BLANCO MESAVERDE (PRORATED GAS)						
Location: Surface Datum Code: NAD 27 Deviated							
Latitude: 36.636231	Longitude: -107.343579	X:	Y:	Section: 27	Range: 005W		
Footage X: 1935 FEL	Footage Y: 1185 FNL	Elevation: 6917	(FT)	Township: 028N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Deviated							
Latitude: 36.637038	Longitude: 107.339500	X:	Y:	Section: 27	Range: 005W		
Footage X: 740 FEL	Footage Y: 890 FNL	Elevation:	(FT)	Township: 028N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2009		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6931 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	6731	☐			12-1/4 hole. 215' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 170 cu. ft. Circulate cement to surface.	
OJO ALAMO	3086	3845	☐				
KIRTLAND	3268	3663	☐				
FRUITLAND COAL	3528	3403	☐			Possible Gas	
PICTURED CLIFFS	3787	3144	☐				
LEWIS	3974	2957	☐				
Intermediate Casing	4124	2807	☐			8 3/4" Hole. 7", 23.0 ppf, L-80, LTC Casing. Cement with 980 cu. ft. Circulate cement to surface.	
HUERFANITO BENTONITE	4431	2500	☐				
CHACRA	4781	2150	☐				
MASSIVE CLIFF HOUSE	5590	1341	☐			Gas	
MENEFEE	5654	1277	☐			Gas	
MASSIVE POINT LOOKOUT	5976	955	☐	500		Gas	
MANCOS	6526	405	☐				
UPPER GALLUP	7166	-235	☐				
GREENHORN	7938	-1007	☐	2300			
GRANEROS	7992	-1061	☐				
TWO WELLS	8050	-1119	☐			Gas #70M in NW34-28-5 quit dusting in the Two Wells	
UPPER CUBERO	8141	-1210	☐			Gas #78 in NW25-28-5 quit dusting in the Upper Cubero	
LOWER CUBERO	8191	-1260	☐			Gas Estimated bottom perf at 8363'	
ENCINAL	8264	-1333	☐			Gas #82M in NW22-28-5 quit dusting in the Encinal	
TOTAL DEPTH DK	8264	-1333	☐	2400		6-1/4" Hole. 4-1/2", 11.6 ppf, L-80 LTC casing. Cement with 564 cu. ft. Circulate cement a minimum of 100' inside the previous casing string.	

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-5 UNIT 77N

DEVELOPMENT

Reference Wells:		
Reference Type	Well Name	Comments
Production	28-5 77 & 40	NE27-28N-05W

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

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

Mudlogger from 100' above top of Greenhorn to TD. Mudlogger will call TD.

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

Comments: Location/Tops/Logging - DK 28N05W27NE2 MVNM028N005W27NE2

Zones - DK 28N05W27NE2 MVNM028N005W27NE2

ConocoPhillips or its affiliates Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 28-5 #77N
Company:	ConocoPhillips Lower 48	TVD Reference:	Generic Rig RKB @ 6932.0ft (Generic Rig)
Project:	San Juan Basin	MD Reference:	Generic Rig RKB @ 6932.0ft (Generic Rig)
Site:	Russell's Site for Directional MV/DK wells	North Reference:	True
Well:	SJ 28-5 #77N	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 28-5 #77N		
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)
7,500.0	0.00	76.18	7,269.3	294.3	1,196.7	1,232.3	0.00	0.00	0.00
7,600.0	0.00	76.18	7,369.3	294.3	1,196.7	1,232.3	0.00	0.00	0.00
7,700.0	0.00	76.18	7,469.3	294.3	1,196.7	1,232.3	0.00	0.00	0.00
7,800.0	0.00	76.18	7,569.3	294.3	1,196.7	1,232.3	0.00	0.00	0.00
7,900.0	0.00	76.18	7,669.3	294.3	1,196.7	1,232.3	0.00	0.00	0.00
8,000.0	0.00	76.18	7,769.3	294.3	1,196.7	1,232.3	0.00	0.00	0.00
8,100.0	0.00	76.18	7,869.3	294.3	1,196.7	1,232.3	0.00	0.00	0.00
8,168.7	0.00	76.18	7,938.0	294.3	1,196.7	1,232.3	0.00	0.00	0.00
Greenhorn									
8,200.0	0.00	76.18	7,969.3	294.3	1,196.7	1,232.3	0.00	0.00	0.00
8,222.7	0.00	76.18	7,992.0	294.3	1,196.7	1,232.3	0.00	0.00	0.00
Graneros									
8,280.7	0.00	76.18	8,050.0	294.3	1,196.7	1,232.3	0.00	0.00	0.00
Two Wells									
8,300.0	0.00	76.18	8,069.3	294.3	1,196.7	1,232.3	0.00	0.00	0.00
8,371.7	0.00	76.18	8,141.0	294.3	1,196.7	1,232.3	0.00	0.00	0.00
Cubero									
8,400.0	0.00	76.18	8,169.3	294.3	1,196.7	1,232.3	0.00	0.00	0.00
8,421.7	0.00	76.18	8,191.0	294.3	1,196.7	1,232.3	0.00	0.00	0.00
Lower Cubero									
8,494.6	0.00	76.18	8,263.9	294.3	1,196.7	1,232.3	0.00	0.00	0.00
4 1/2"									
8,494.7	0.00	76.18	8,264.0	294.3	1,196.7	1,232.3	0.00	0.00	0.00
Encinal - TD - SJ 28-5 #77N PCP									

Targets

Target Name	hit/miss target	Shape	Dip Angle (d)	Dip Dir (d)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (m)	Easting (m)	Latitude	Longitude
SJ 28-5 #77N PCP	- plan hits target	- Point	0.00	0.00	8,264.0	294.3	1,196.7	625,300.41	196,562.84	36° 38' 13.338" N	107° 20' 22.200" W
SJ 28-5 #77N ICP	- plan hits target	- Point	0.00	0.00	4,124.0	294.3	1,196.7	625,300.42	196,562.83	36° 38' 13.338" N	107° 20' 22.200" W

Casing Points

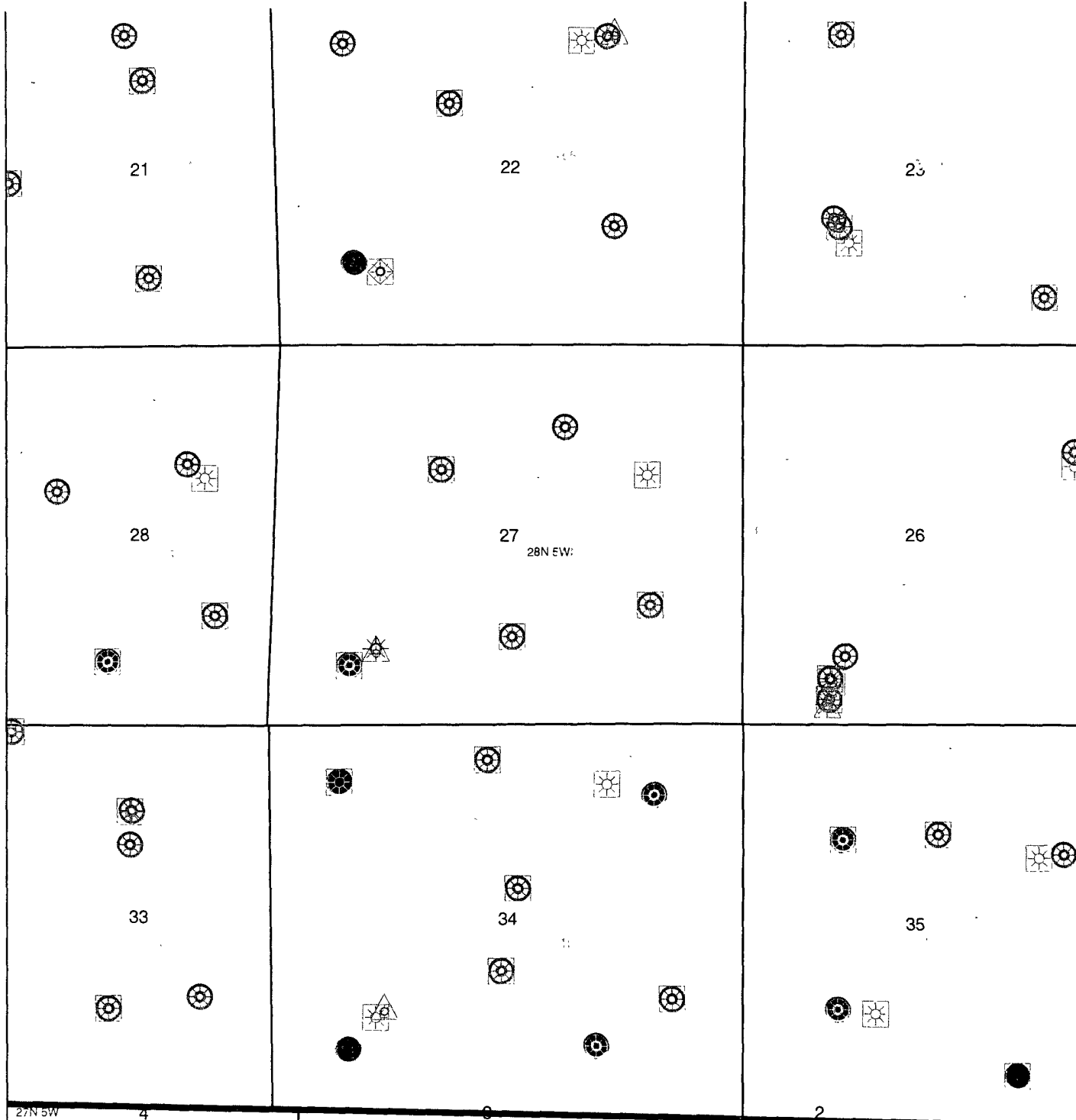
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
215.0	215.0	9 5/8"	9.625	12.250
4,354.7	4,124.0	7"	8.750	8.750
8,494.6	8,263.9	4 1/2"	4.500	6.250

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 28-5 #77N
Company:	ConocoPhillips Lower 48	TVD Reference:	Generic Rig RKB @ 6932.0ft (Genenc Rig)
Project:	San Juan Basin	MD Reference:	Generic Rig RKB @ 6932.0ft (Genenc Rig)
Site:	Russell's Site for Directional MV/DK wells	North Reference:	True
Well:	SJ 28-5 #77N	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 28-5 #77N		
Design:	APD Directional Plan		

Formations						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (d)	Dip Direction (d)
	3,279.1	3,086.0	Ojo		0.00	
	3,477.4	3,268.0	Kirtland		0.00	
	3,751.7	3,528.0	Fruitland		0.00	
	4,016.4	3,787.0	Pictured Cliffs		0.00	
	4,204.5	3,974.0	Lewis		0.00	
	4,661.7	4,431.0	Huerfano Bentonite		0.00	
	5,011.7	4,781.0	Chacra		0.00	
	5,820.7	5,590.0	Mass. Cliffhouse		0.00	
	5,884.7	5,654.0	Menefee		0.00	
	6,206.7	5,976.0	Point Lookout		0.00	
	6,756.7	6,526.0	Mancos		0.00	
	7,396.7	7,166.0	Upper Gallup		0.00	
	8,168.7	7,938.0	Greenhorn		0.00	
	8,222.7	7,992.0	Graneros		0.00	
	8,280.7	8,050.0	Two Wells		0.00	
	8,371.7	8,141.0	Cubero		0.00	
	8,421.7	8,191.0	Lower Cubero		0.00	
	8,494.7	8,264.0	Encinal		0.00	
	8,494.7	8,264.0	TD		0.00	



Legend

- <all other values>
- ◊ FRUITLAND COAL
- ◊ PICTURED CLIFFS
- ◊ MESAVERDE
- ◊ GALLUP /SD/ SH/
- ◊ DAKOTA

Sections

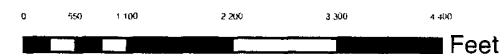
Townships

BURLINGTON
RESOURCES



PLAT

© Unpublished Work, Burlington Resources, Inc



1:24,000 - 1" equals 2,000'

GCS North American 1927



BURLINGTON RESOURCES

San Juan

San Juan 28-5 Unit 77N Map 1A

Sec 27 T28N R5W

Prepared By **ISR** Date **7/30/2007**

File Number Revised Date **7/30/2007**

File Name **San Juan 28-5 Unit 77N**

