

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

NOV 13 2012

1a. Type of Work DRILL	5. Lease Number SF-079520 Unit Reporting Number Farmington Field Office Bureau of Land Management
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator <b>BURLINGTON</b> 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 SAN JUAN 28-5 UNIT 9. Well Number 77P RCVD DEC 4 '12 OIL CONS. DIV.
4. Location of Well Surface: Unit D (NW/NW), 190' FNL & 15' FWL  Surface: Latitude: 36.638971° N (NAD83) Longitude: 107.355508° W	10. Field, Pool, Wildcat BASIN DK / BLANCO MV DIST. 3 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 27, T28N, R5W API # 30-039- 31153
14. Distance in Miles from Nearest Town 41.5 Miles from Bloomfield, NM	12. County Rio Arriba 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 15'	
16. Acres in Lease 1,156.470	17. Acres Assigned to Well N/2 (320)
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 1628' from San Juan 28-5 Unit 82 (MV)	
19. Proposed Depth 8007' <small>This location is subject to technical and geological review pursuant to 43 CFR 3165.3 and 3165.4</small>	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6722' GL	22. Approx. Date Work will Start DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS". 11/12/12
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: Marie E. Jaramillo (Staff Regulatory Tech)	Date

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

Archaeological Report attached

A gas recovery unit may or may not be used on this location.

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

NOTIFY AZTEC OCD 24 HRS.  
PRIOR TO CASING & CEMENT

DEC 06 2012 ca

NMOCD  
AV

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

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office  
**NOV 13 2012**  
Farmington Field Office  
Bureau of Land Management

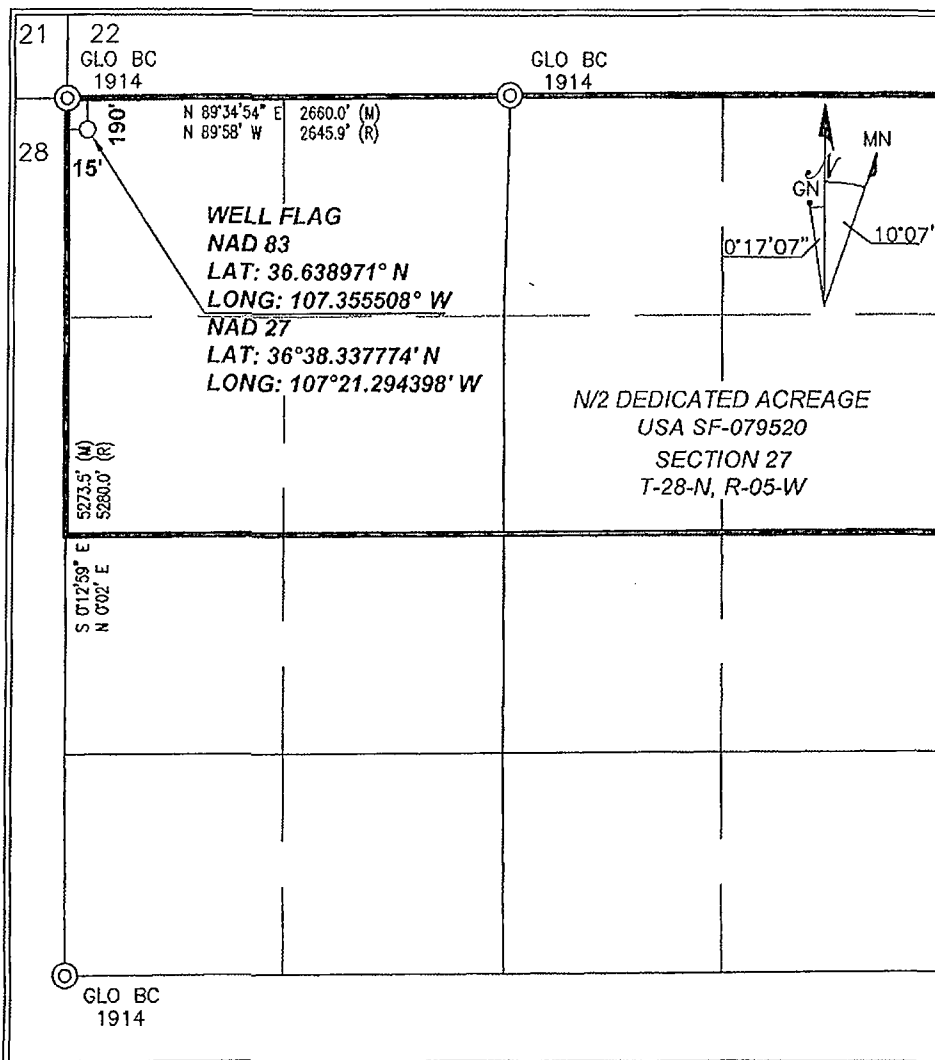
**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number 30-039- <b>31153</b>	<sup>2</sup> Pool Code 72319/71599	<sup>3</sup> Pool Name BLANCO MESAVERDE/BASIN DAKOTA
<sup>4</sup> Property Code 7460	<sup>5</sup> Property Name SAN JUAN 28-5 UNIT	<sup>6</sup> Well Number 77P
<sup>7</sup> OGRID No. 14538	<sup>8</sup> Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	<sup>9</sup> Elevation 6722

<sup>10</sup> SURFACE LOCATION									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	27	28-N	5-W		190	NORTH	15	WEST	RIO ARRIBA

<sup>11</sup> 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
<sup>12</sup> Dedicated Acres N/2(320)	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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.



<sup>17</sup> **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 released 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 of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

*Arleen Kellywood* 2/16/12  
Signature Date  
Arleen Kellywood  
Printed Name  
arleen.r.kellywood@conocophillips.com  
E-mail Address

<sup>18</sup> **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: 08/05/2008  
Signature and Seal of Professional Surveyor:  
*Henry P. Broadhurst, Jr.*  
HENRY P. BROADHURST, JR.  
NEW MEXICO  
11383  
PROFESSIONAL SURVEYOR  
01/17/12

Certificate Number: NM 11393

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-5 UNIT 77P

DEVELOPMENT

Lease:		AFE #: WAN.CDR.1191				AFE \$: 0.00	
Field Name: SAN JUAN 28-5 UNIT		Rig: Aztec Rig 920		State: NM	County: RIO ARRIBA		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist:		Phone:		Prod. Engineer:		Phone:	
Res. Engineer: McKee, Cory J		Phone: +1 505-326-9826		Proj. Field Lead:		Phone:	
<b>Primary Objective (Zones):</b>							
<b>Zone</b>	<b>Zone Name</b>						
FRR	BASIN DAKOTA (PRORATED GAS)						
RON	BLANCO MESAVERDE (PRORATED GAS)						
<b>Location: Surface</b> <b>Datum Code: NAD 27</b> <b>Straight Hole</b>							
Latitude: 36.638962		Longitude: -107.354907		X:	Y:	Section: 27	Range: 005W
Footage X: 15 FWL		Footage Y: 190 FNL		Elevation: 6722 (FT)		Township: 028N	
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2013		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6734      Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
SAN JOSE	15	6719		<input type="checkbox"/>			Ground water 80' md, 6610' ss in San Juan 28-5 Unit 23.
Surface Casing	200	6534		<input type="checkbox"/>		45	12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
NACIMIENTO	1665	5069		<input type="checkbox"/>			
OJO ALAMO	2883	3851		<input type="checkbox"/>			
KIRTLAND	3071	3663		<input type="checkbox"/>			
FRUITLAND	3179	3555		<input type="checkbox"/>		108	Possible Gas
PICTURED CLIFFS	3599	3135		<input type="checkbox"/>	1123		
LEWIS	3704	3030		<input type="checkbox"/>			
Intermediate Casing	3853	2881		<input type="checkbox"/>		119	8 3/4" Hole. 7", 20/23 ppf, J-55, STC/LTC Casing. Cement with 868 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	4391	2343		<input type="checkbox"/>			
CHACRA	4560	2174		<input type="checkbox"/>			
MASSIVE CLIFF HOUSE	5355	1379		<input type="checkbox"/>	669	154	Gas
MENEFEE	5454	1280		<input type="checkbox"/>			Gas
POINT LOOKOUT	5748	986		<input type="checkbox"/>			Gas - Est MV bottom perf 696' ss (290' below top PNLK) base on offset well.
MANCOS	6288	446		<input type="checkbox"/>		174	
UPPER GALLUP	6954	-220		<input type="checkbox"/>			
GREENHORN	7690	-956		<input type="checkbox"/>			
GRANEROS	7753	-1019		<input type="checkbox"/>			
TWO WELLS	7803	-1069		<input type="checkbox"/>	1890	206	Gas - Wet TWLS in SJ 28-5 88 (28n5w15)
PAGUATE	7878	-1144		<input type="checkbox"/>			
UPPER CUBERO	7894	-1160		<input type="checkbox"/>			Gas
LOWER CUBERO	7941	-1207		<input type="checkbox"/>			
Total Depth	8007	-1273		<input type="checkbox"/>		210	6-1/4" hole, 4-1/2" 11.6 ppf, L-80, STC/LTC casing. Cement w/ 544 cuft. 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 77P

DEVELOPMENT

OAK CANYON	8008	-1274	<input type="checkbox"/>	
ENCINAL	8018	-1284	<input type="checkbox"/>	Wet at TD in SJ 28-5 86M (28n5w23)
BURRO CANYON	8080	-1346	<input type="checkbox"/>	
MORRISON	8100	-1366	<input type="checkbox"/>	213

## Reference Wells:

Reference Type	Well Name	Comments
Production	SAN JUAN 28-5 UNIT 77M	
Production	SAN JUAN 28-5 67M	

## Logging Program:

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

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

GR/CBL.

Mud log ~100' above GLLP down to TD.

Mudlogger will call TD.

Est bottom perf ~20' above TD.

## Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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# **BURLINGTON RESOURCES OIL & GAS COMPANY LP**

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**SAN JUAN 28-5 UNIT #77P**

**190' FNL, 15' FWL**

**SECTION 27, T-28-N, R-5-W, N.M.P.M.,**

**RIO ARRIBA COUNTY, NEW MEXICO**

**NAD 83 LAT.: 36.638971°N LONG.: 107.355508° W**

**ELEV.: 6722' NAVD88**

**NEW ACCESS ROAD 447.0'**

FROM BLOOMFIELD ON HWY 64:

- GO EAST 36.4 MI. (TO MILE POST 101.1) AND TURN RIGHT BY GOBERNADOR SCHOOL.
- GO 1.1 MI. SOUTH ON C.R. 366 (GENERAL AMERICAN ROAD) TO INTERSECTION OF AMERICAN GENERAL & ARNOLD RANCH ROADS, TURN LEFT AT "Y" IN ROAD.
- GO 3.8 MI. SOUTHEASTERLY ON ARNOLD ROAD. TURN LEFT (NORTHEAST).
- GO 0.5 MI. NORTHEAST. TURN RIGHT AT ACCESS TO EXISTING FACILITY BEGIN ACCESS OFF SOUTHEAST SIDE OF EXISTING FACILITY.