

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

MAY 12 2011

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Farmington Field Office
Bureau of Land Management

1a. Type of Work DRILL	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	5. Lease Number SF-080537
1b. Type of Well GAS		Unit Reporting Number NMNM-78419A-mv
		6. If Indian, All. or Tribe
2. Operator ConocoPhillips Company		7. Unit Agreement Name OIL CONS. DIV. DIST. 3 San Juan 30-5 Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700		8. Farm or Lease Name
		9. Well Number 21N
4. Location of Well Surface: Unit L(NWSW), 2310' FSL & 945' FWL Surface: Latitude: 36.797202° N (NAD83) Longitude: 107.314451° W		10. Field, Pool, Wildcat Blanco MV / Basin DK
		11. Sec., Twn, Rge, Mer. (NMPM) Sec. 24, T30N, R5W API # 30-039-31064
14. Distance in Miles from Nearest Town 59.3 miles from Bloomfield, NM	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 945'		
16. Acres in Lease 807.21 acres	17. Acres Assigned to Well 320.00 acres MV/DK - W2	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 1023' from SJ 30-5 Unit 268 (FC)		
19. Proposed Depth 8451'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 7039' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Dollie L. Busse</u> Dollie L. Busse (Staff Regulatory Tech)	Date <u>May 2, 2011</u>	

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE AFM DATE 8/8/11

Archaeological Report attached A gas recovery unit may or may not be used on this location.
Threatened and Endangered Species Report attached **NOTIFY AZTEC OCD 24 HRS.**
NOTE: This format is issued in lieu of U.S. BLM Form 3160-3 **PRIOR TO CASING & CEMENT**
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make any statement 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 ES-0048 and ES-0085

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

AUG 22 2011 NMOC

Hold C-104 for DHC order if this well is to be completed

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

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, 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 & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 7 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039- 31064	² Pool Code 71599/72319	³ Pool Name BASIN DAKOTA / BLANCO MESAVERDE
⁴ Property Code 17260 31327	⁵ Property Name SAN JUAN 30-5 UNIT	⁶ Well Number 21N
⁷ OGRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY	⁹ Elevation 7039

¹⁰ SURFACE LOCATION

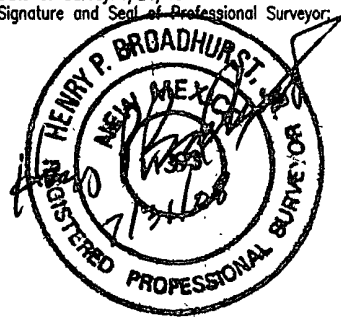
UL or lot no. L	Section 24	Township 30-N	Range 5-W	Lot Idn	Feet from the 2310	North/South line SOUTH	Feet from the 945	East/West line WEST	County RIO ARRIBA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. L	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres 320.00	¹³ Joint or Infill (W/2)	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 W/2 DEDICATED ACREAGE USA SF-080537 SECTION 24 T-30-N, R-5-W WELL FLAG NAD 83 LAT: 36.797202° N LONG: 107.314451° W NAD 27 LAT: 36°47.831669' N LONG: 107°18.831034' W GLO 1916 945' 2640.0' (R) 2632.1' (M) N 0°03'00" E N 0°11'14" W GLO 1916 WEST S 89°36'54" W 4447.7' (R) 4433.4' (M) GLO 1916		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 of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Crystal Tafroya 8/20/08</i> Signature Crystal Tafroya Printed Name Regulatory Technician Title and E-mail Address August 20, 2008 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: 4/24/08 Signature and Seal of Professional Surveyor:  Certificate Number: NM 11393
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PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-5 UNIT 21N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8118				AFE \$: 0.00	
Field Name: SAN JUAN		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:	
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: 36.797195	Longitude: -107.313850	X:	Y:	Section: 24		Range: 005W	
Footage X: 945 FWL		Footage Y: 2310 FSL		Elevation: 7039 (FT)	Township: 030N		
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2013		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 7051 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	6851		<input type="checkbox"/>			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 119 cuft. Circulate cement to surface.
OJO ALAMO	3110	3941		<input type="checkbox"/>			
KIRTLAND	3298	3753		<input type="checkbox"/>			
FRUITLAND	3334	3717		<input type="checkbox"/>			Possible Gas
PICTURED CLIFFS	3942	3109		<input type="checkbox"/>			
LEWIS	4045	3006		<input type="checkbox"/>			
Intermediate Casing	4145	2906		<input type="checkbox"/>			8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Cement with 934 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	4751	2300		<input type="checkbox"/>			
CHACRA	5065	1986		<input type="checkbox"/>			Est. Top Perf - 5067(1984)
MASSIVE CLIFF HOUSE	5918	1133		<input type="checkbox"/>	775		Gas
MENEFEE	5953	1098		<input type="checkbox"/>			
POINT LOOKOUT	6154	897		<input type="checkbox"/>			
MANCOS	6607	444		<input type="checkbox"/>			
UPPER GALLUP	7443	-392		<input type="checkbox"/>			
GREENHORN	8160	-1109		<input type="checkbox"/>			
GRANEROS	8208	-1157		<input type="checkbox"/>			
TWO WELLS	8325	-1274		<input type="checkbox"/>	3250		Gas
UPPER CUBERO	8340	-1289		<input type="checkbox"/>			
LOWER CUBERO	8380	-1329		<input type="checkbox"/>			Est. Btm Perf - 8431 (- 1380) based on offset wells
Total Depth	8451	-1400		<input type="checkbox"/>			6-1/4" hole, 4-1/2" 10.5/11.6 ppf, J-55, STC/LTC casing. Cement w/ 586 cuft. Circulate cement a minimum of 100' inside the previous casing string.
ENCINAL	8451	-1400		<input type="checkbox"/>			
Reference Wells:							
Reference Type	Well Name			Comments			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-5 UNIT 21N

DEVELOPMENT

Logging Program:

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

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

Est bottom perf ~20' above the est TD. Mud log No. 21N or 21M - one that will drill first. Mud log from ~100' above the Gallup to TD. Mud loggers will call final TD.

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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CONOCOPHILLIPS COMPANY

**SAN JUAN 30-5 UNIT #21N
2310' FSL, 945' FWL
SECTION 24, T-30-N, R-5-W, N.M.P.M.,
RIO ARRIBA COUNTY, NEW MEXICO
NAD 83 LAT.: 36.797202°N LONG.: 107.314451°W
ELEV.: 7039 NAVD88
NEW ACCESS 764.2'**

**DRIVING DIRECTIONS TO: COPC SAN JUAN 30-5 UNIT #21N IN SECTION
24, T-30-N, R-5-W IN RIO ARRIBA CO.**

THIS WELL IS STAKED 5 MILES WEST, NORTHWEST OF BIXLER RANCH ON
THE WESTERLY SIDE OF CABRESTO MESA AND ALONG FOREST ROAD #311
(FROM ROSA ROAD SIDE, 2.7 MILES FROM FOREST BOUNDARY ON FOREST
ROAD #311).

FROM BLOOMFIELD, N.M.:

- GO 50.0 MILES EAST ON STATE HWY. #64 TO MILE MARKER 114.5
AND TURN LEFT (NORTH) ON FOREST ROAD #310 (AKA BIXLER
RANCH) AND TURN OFF.
- GO 4.4 MILES NORTH WEST ON FOREST ROAD #310. TURN LEFT ON
FOREST ROAD #311 AND HEAD WEST ALONG THE TOP OF CABRESTO
MESA.
- GO 3.4 MILES WEST ON FOREST ROAD #311 ACROSS CABRESTO
MESA. TURN LEFT (WEST) AND CONTINUE DOWN HILL GRADE ON
FOREST ROAD #311.
- GO 1.3 MILES DOWN HILL AND WESTERLY ON FOREST ROAD #311.
- BEGIN THE 764.2 FT. NEW ACCESS ON THE RIGHT SIDE OF FOREST
ROAD #311, AT NORTHERLY EDGE OF COPC SJ 30-5 #268 WELL
LOCATION.