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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FEB 18 2010

Bureau of Land Management
Farmington Field Office

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number SF-078739 Unit Reporting Number NMNM-78419A-MV NMNM-78419B-DK
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator ConocoPhillips Company	7. Unit Agreement Name 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 RCVD MAR 8 '10 9. Well Number 51N OIL CONS. DIV. DIST. 3
4. Location of Well Surf: Unit N (SESW), 856' FSL & 1608' FWL Bottomhole: Unit O (SWSE), 1115' FSL & 2520' FEL Surf: Latitude: 36.793248° N (NAD83) Longitude: 107.366152° W Bottomhole: Latitude: 36.793967° N (NAD83) Longitude: 107.362352° W	10. Field, Pool, Wildcat Blanco MV / Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) N Sec. 21, T30N, R5W API # 30-039- 30920
14. Distance in Miles from Nearest Town 58 miles / Bloomfield	12. County Rio Arriba
	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 856'	
16. Acres in Lease 2,320.00	17. Acres Assigned to Well 320.00 E/2 - MV/DK
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 72' from San Juan 30-5 Unit 75N (DK/MV)	
19. Proposed Depth 7993'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6529' GL	22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached	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
24. Authorized by: <u>Jamie Goodwin</u> Jamie Goodwin (Regulatory Technician)	Date <u>2/18/10</u>

PERMIT NO.

APPROVAL DATE

APPROVED BY DJ Montiel

TITLE AFM

DATE 3/4/2010

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

Record Numbers ES-0048 and ES-0085

Hold C104

for Directional Survey

and "As 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

MAR 10 2010

NMOCD

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

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FEB 18 2010

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 7 Copies

Fee Lease - 3 Copies

Bureau of Land Management
Farmington Field Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-36920		² Pool Code 71599/72319		³ Pool Name BASIN DAKOTA / BLANCO MESAVERDE	
⁴ Property Code 31327		⁵ Property Name SAN JUAN 30-5 UNIT			⁶ Well Number 51N
⁷ OGRID No. 217817		⁸ Operator Name CONOCOPHILLIPS COMPANY			⁹ Elevation 6529

¹⁰ SURFACE LOCATION

UL or lot no. N	Section 21	Township 30-N	Range 5-W	Lot Idn	Feet from the 856	North/South line SOUTH	Feet from the 1608	East/West line WEST	County RIO ARRIBA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. O	Section 21	Township 30-N	Range 5-W	Lot Idn	Feet from the 1115	North/South line SOUTH	Feet from the 2520	East/West line EAST	County RIO ARRIBA
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¹² Dedicated Acres 320.00 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 BASIS OF BEARING IS THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD83 AS DETERMINED BY GPS OBSERVATION AND NGS/OPUS SOLUTION.		GLO 1916 5280.0' (R) 5282.5' (M)		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>Ethel Tally</i> Signature Ethel Tally Printed Name Staff Regulatory Tech Title and E-mail Address 9-23-09 Date	
GLO 1916 2644.2' (M) 2640.0' (R)		E/2 DEDICATED ACREAGE USA SF-078739 SECTION 21, T-30-N, R-5-W		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: 8/25/09 Signature and Seal of Professional Surveyor:  Certificate Number: NM 11393	
WELL FLAG NAD 83 LAT: 36.793248° N LONG: 107.366152° W NAD 27 LAT: 36°47.594517' N LONG: 107°21.933036' W		BOTTOM HOLE NAD 83 LAT: 36.793967° N LONG: 107.362352° W NAD 27 LAT: 36°47.637611' N LONG: 107°21.705039° W			
1608' N 0°08'48" E N 0°01' E GLO N 89°49' E 1916 N 89°35'22" E 2630.1' (R) 2617.9' (M)		856' N 76°29'38" E 1143.0' 1115' GLO 1916 N 89°49' E N 89°32'10" E 2630.1' (R) 2622.1' (M)		2520' N 0°02' E N 0°07'09" W GLO 1916	

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-5 UNIT 51N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9313				AFE \$: 1,023,259.45	
Field Name: SAN JUAN		Rig: H&P Rig 282		State: NM	County: RIO ARRIBA		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist:		Phone:		Prod. Engineer:		Phone:	
Res. Engineer:		Phone:		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
RON	BLANCO MESAVERDE (PRORATED GAS)						
FRR	BASIN DAKOTA (PRORATED GAS)						
Location: Surface Datum Code: NAD 27 Directional:							
Latitude: 36.793241		Longitude: -107.365550		X:	Y:	Section: 21	Range: 005W
Footage X: 1608 FWL		Footage Y: 856 FSL		Elevation: 6529 (FT)		Township: 030N	
Tolerance:							
Location: Bottom/Hole Datum Code: NAD 27 Directional:							
Latitude: 36.793960		Longitude: -107.361750		X:	Y:	Section: 21	Range: 005W
Footage X: 2520 FEL		Footage Y: 1115 FSL		Elevation: (FT)		Township: 030N	
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2010		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6545 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	230	6315	☐			12-1/4 hole. 230' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface. San Jose is at surface	
NACIMIENTO	1392	5153	☐				
OJO ALAMO	2685	3860	☐				
KIRTLAND	2778	3767	☐				
FRUITLAND	2865	3680	☐	120		Possible Gas	
PICTURED CLIFFS	3473	3072	☐	1053			
LEWIS	3563	2982	☐				
Intermediate Casing	3663	2882	☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 874 cuft. Circulate cement to surface.	
HUERFANITO BENTONITE	4238	2307	☐				
CHACRA	4568	1977	☐				
MASSIVE CLIFF HOUSE	5401	1144	☐	475		Gas	
MENEFEE	5443	1102	☐				
POINT LOOKOUT	5669	876	☐				
MANCOS	6081	464	☐				
UPPER GALLUP	6956	-411	☐				
GREENHORN	7677	-1132	☐				
GRANEROS	7722	-1177	☐				
PAGUATE	7841	-1296	☐	3100			
UPPER CUBERO	7851	-1306	☐				
LOWER CUBERO	7894	-1349	☐				
ENCINAL	7963	-1418	☐			TD 30' into Encinal to complete upper sand.	

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 30-5 UNIT 51N

DEVELOPMENT

Total Depth	7993	-1448	☐	6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/ 589 cuft. Circulate cement a minimum of 100' inside the previous casing string.
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Reference Wells:

Reference Type	Well Name	Comments
Production	30-5 75N & 51M	section 21 30-5

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 - loggers will call TD

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 30-5 #51N
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6545 0ft (H&P RIGS)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6545 0ft (H&P RIGS)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-5 #51N	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 30-5 #51N		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,966.5	2,778.0	Kirtland		0.00		
8,215.3	7,993.0	Total Depth		0.00		
8,185.3	7,963.0	Encinal		0.00		
3,695.0	3,473.0	Pictured Cliffs		0.00		
8,063.3	7,841.0	Paguate		0.00		
7,179.3	6,957.0	Upper Gallup		0.00		
3,785.3	3,563.0	Lewis		0.00		
1,444.2	1,392.0	Nacimiento		0.00		
8,073.3	7,851.0	Upper Cubero		0.00		
5,665.3	5,443.0	Menefee		0.00		
4,460.3	4,238.0	Huerfano Bentonite		0.00		
4,790.3	4,568.0	Chacra		0.00		
5,623.3	5,401.0	Mass. Cliffhouse		0.00		
7,899.3	7,677.0	Greenhorn		0.00		
5,891.3	5,669.0	Point Lookout		0.00		
6,303.3	6,081.0	Mancos		0.00		
2,864.4	2,685.0	Ojo Alamo		0.00		
8,116.3	7,894.0	Lower Cubero		0.00		
7,944.3	7,722.0	Graneros		0.00		
3,062.1	2,865.0	Fruitland		0.00		

REFERENCE INFORMATION

RKB @ 6545.0ft (H&P RIGS)
Ground Elevation 6529.0
Reference Lat: 36° 47' 35.671 N
Reference Long: 107° 21' 55.982 W

Project: San Juan Basin - New Mexico Wells

Site: San Juan 30 Wells

Well: SJ 30-5 #51N

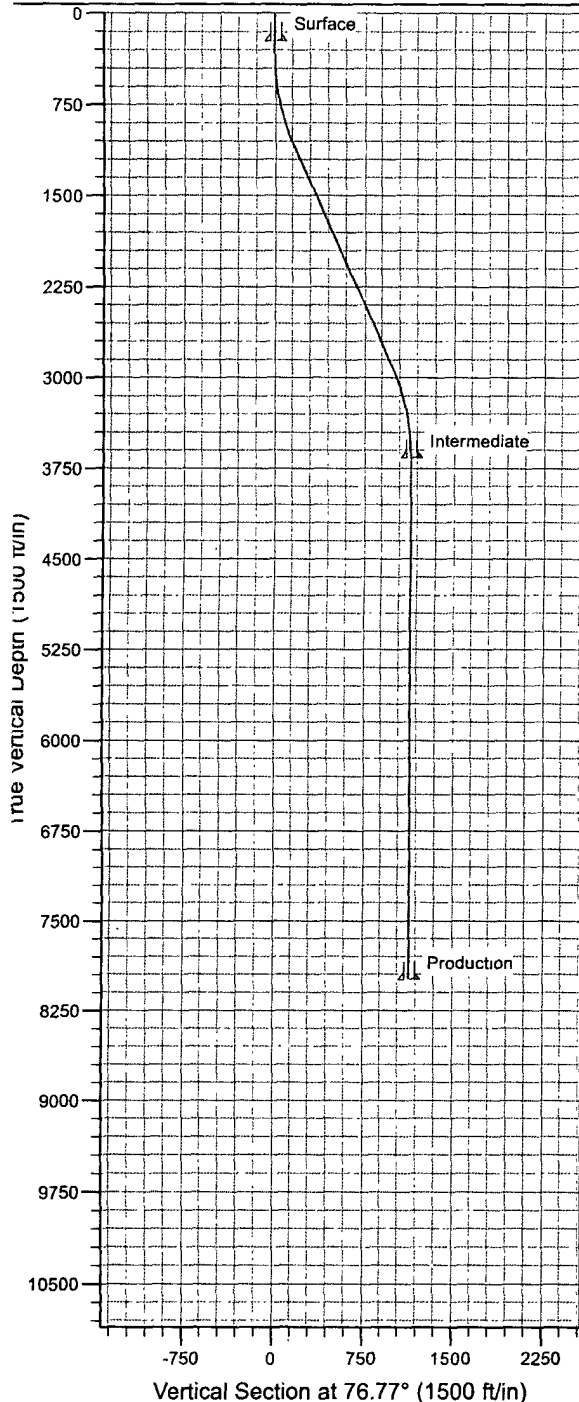
Wellbore: SJ 30-5 #51N

Design: Plan #1



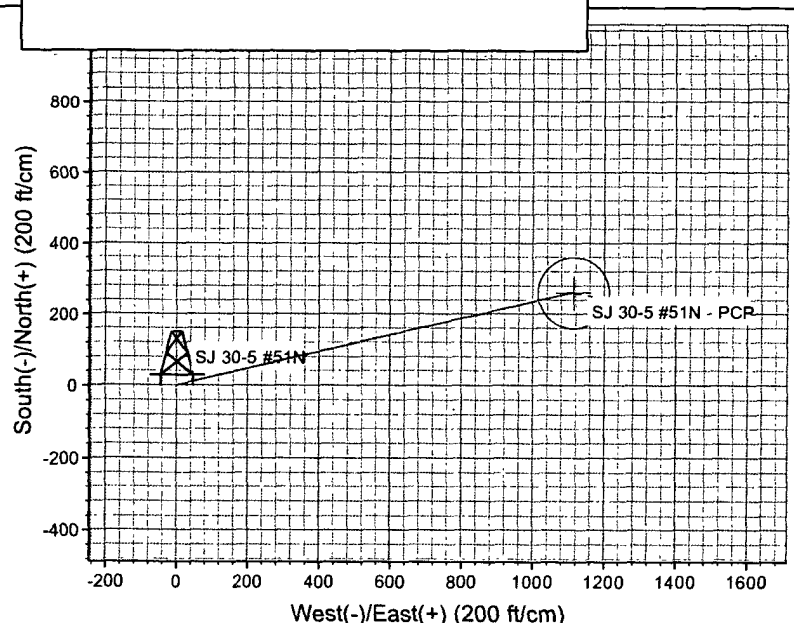
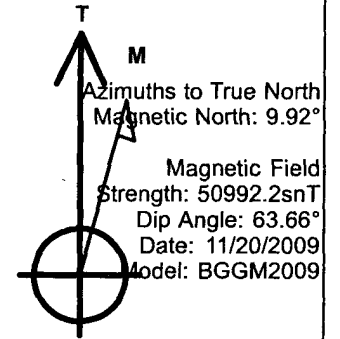
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	320.0	0.00	0.00	320.0	0.0	0.0	0.00	0.00	0.0	
3	1134.4	24.43	76.77	1110.0	39.1	166.5	3.00	76.77	171.0	
4	3070.9	24.43	76.77	2873.0	222.4	946.2	0.00	0.00	972.0	
5	3885.3	0.00	0.00	3663.0	261.6	1112.7	3.00	180.00	1143.1	SJ 30-5 #51N - ICP
6	8215.3	0.00	0.00	7993.0	261.6	1112.7	0.00	0.00	1143.1	SJ 30-5 #51N - PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1392.0	1444.2	Nacimiento
2685.0	2864.4	Ojo Alamo
2778.0	2966.5	Kirtland
2865.0	3062.1	Fruitland
3473.0	3695.0	Pictured Cliffs
3563.0	3785.3	Lewis
4238.0	4460.3	Huerfano Bentonite
4568.0	4790.3	Chacra
5401.0	5623.3	Mass. Cliffhouse
5443.0	5665.3	Menefee
5669.0	5891.3	Point Lookout
6081.0	6303.3	Mancos
6957.0	7179.3	Upper Gallup
7677.0	7899.3	Greenhorn
7722.0	7944.3	Graneros
7841.0	8063.3	Paguate
7851.0	8073.3	Upper Cubero
7894.0	8116.3	Lower Cubero
7963.0	8185.3	Encinal
7993.0	8215.3	Total Depth



CONOCOPHILLIPS COMPANY

SAN JUAN 30-5 UNIT #51N

856' FSL, 1608' FWL

SECTION 21, T-30-N, R-5-W, N.M.P.M.,

RIO ARriba COUNTY, NEW MEXICO

NAD 83 LAT.: 36.793248°N LONG.: 107.366152°W

ELEV.: 6529 NAVD88

NO NEW ACCESS

FROM BLOOMFIELD, NEW MEXICO:

- GO 37.7 MI. ON HWY. 64, (MILE MARKER 102.3) TURN LEFT (NORTH) ON HWY. 527, AKA SIMMS MARINA ROAD.
- GO 8.0 MI. NORTH ON HWY. 527 (SIMMS MARINA ROAD). TURN RIGHT ONTO ROSA ROAD.
- GO 6.4 MI. ALONG ROSA ROAD, CROSSING LA JARA WASH (BYPASS OLD BRIDGE) UP STEEP HILL. TURN RIGHT (EAST) AT BLM WARNING SIGN.
- GO 4.4 MI. EASTERLY, CROSSING LA FRAGUA WASH, STAYING ON MAIN ROAD. TURN RIGHT (SOUTH).
- GO 0.7 MI. SOUTH, THEN EAST UPHILL. TURN LEFT INTO EXISTING WELLPADS.
- GO 0.3 MI. SOUTHEAST THROUGH WELL LOCATIONS FOR COPC SJ 30-5 UNIT #30, UNIT #75, UNIT #217, AND ENDING AT SJ 30-5 UNIT #75N. NEW WELL TWINNED HERE.