

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

RCVD FEB 17 '10
OIL CONS. DIV.
DIST. 3

1a. Type of Work DRILL	5. Lease Number NMSF-078999 Unit Reporting Number
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator ConocoPhillips	7. Unit Agreement Name San Juan 31-6 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 Surface Location - Unit K (NESW), 2490' FSL & 1910' FWL, Basin Dakota / Blanco MV Bottomhole Location - Unit F (SENW), 1880' FNL & 1880' FWL Latitude 36.855653'N Longitude 107.452735'W	9. Well Number #33N
	10. Field, Pool, Wildcat Basin Dakota / Blanco MV
	11. Sec., Twn, Rge, Mer. (NMPM) Sec. 34, T31N, R06W, NMPM
	API # 30-039- 30328
14. Distance in Miles from Nearest Town	12. County Rio Arriba
	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1880'	
16. Acres in Lease 2,560.00	17. Acres Assigned to Well BMS & MV 320 W/2 DK 320 N/2
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease	
19. Proposed Depth 8068' TVD 18209' TMD	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6521' GL	22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>Patsy Chugot</u> Regulatory Analyst	Date 8/17/07

PERMIT NO. APPROVAL DATE
APPROVED BY [Signature] TITLE Asst DATE 2/11/2010

Archaeological Report attached
Environmental Assessment is 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.

TYPE 3 - See Master Operational Plan
0085

FEB 25 2010

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

NMOCD

Hold C104
for Directional Survey
and "As Drilled" plat

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

BOND - ES-0048 & ES-

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

DISTRICT 1
1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised October 12, 2003

DISTRICT II
1301 West Grand Avenue, Artesia, N.M. 88210

OIL CONSERVATION DIVISION

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT III
1000 Rio Brazos Rd., Artes, N.M. 87410

1220 South St. Francis Dr.
Santa Fe, NM 87505

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-30328	*Pool Code 72319/71599	Blanco Mesaverde Basin Dakota
*Property Code 31328	*Property Name SAN JUAN 31-6 UNIT	*Well Number 33N
*OGWD No. 217817	*Operator Name CONOCOPHILLIPS COMPANY	*Elevation 6521'

10 Surface Location

U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	34	31-N	6-W		2490'	SOUTH	1910'	WEST	RIO ARRIBA

¹¹ Bottom Hole Location If Different From Surface

U. or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
F	34	31-N	6-W		1880'	NORTH	1880'	WEST	RIO ARRIBA

17 Dedicated Acres 320 N2 OK 320 acres W/2 M/2	18 Joint or InHH	19 Consolidation Code	20 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

OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

Area 34:
 LAT: 36°51.4855' N.
 LONG: 107°27.1320' W.
 NAD 1983
 BOTTOM HOLE

Area 35:
 LAT: 36°55.8104' N.
 LONG: 107°45.2804' W.
 NAD 1983
 SURFACE

Measurements:
 1880' (width of Area 34)
 1910' (width of Area 35)
 2480' (height of Area 35)

Diagonal line: SF-076989

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 a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the Division.

4/3/07

Kandis Roland
 Signature

Kandis Roland
 Printed Name

Regulatory Tech

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.

3-7-07
 Date of Survey

Glen W. Russell
 Signature of Professional Surveyor

GLEN W. RUSSELL
 NEW MEXICO
 15703
 LICENSED PROFESSIONAL SURVEYOR

Glen W. Russell
 Certificate Number 15703

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 31-6 UNIT 33N

DEVELOPMENT

Lease:		AFE #: WAN.CNV.7200		AFE \$:	
Field Name: 31-6		Rig: XXX 2009 Directional		State: NM	County: RIO ARRIBA
Geologist:		Phone:	Geophysicist:		Phone:
Geoscientist: Glaser, Terry J		Phone: (832)486-2332	Prod. Engineer:		Phone:
Res. Engineer: Pena, David Fernando		Phone: 832-486-2328	Proj. Field Lead: Fransen, Eric E.		Phone:
Primary Objective (Zones):					
Zone	Zone Name				
R20002	MESAVERDE(R20002)				
R20076	DAKOTA(R20076)				
Location: Surface Datum: Code: NAD 27 Deviated					
Latitude: 36.855647	Longitude: -107.452131	X:	Y:	Section: 34	Range: 006W
Footage X: 1910 FWL	Footage Y: 2490 FSL	Elevation: 6521	(FT)	Township: 031N	
Tolerance:					
Location: Bottom Hole Datum: Code: NAD 27 Deviated					
Latitude: 36.858098	Longitude: -107.452200	X:	Y:	Section: 34	Range: 006W
Footage X: 1880 FWL	Footage Y: 1880 FNL	Elevation:	(FT)	Township: 031N	
Tolerance:					
Location Type: Restricted		Start Date (Est.): 1/1/2009		Completion Date:	
				Date In Operation:	
Formation Data: Assume KB = 6537 Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT
Surface Casing	215	6322	☐		
NCMT	1537	5000	☐		
OJAM	2487	4050	☐		Possible water flows.
KRLD	2637	3900	☐		
FRLD	3087	3450	☐		Possible gas.
PCCF	3362	3175	☐		
LEWS	3562	2975	☐		
Intermediate Casing	3662	2875	☐		8-3/4" hole. 7", 23.0, L-80, LT&C casing. Cement with 856 cu. ft. Circulate cement to surface.
CHRA	4647	1890	☐		
CLFH	5457	1080	☐		Gas; possibly wet
MENF	5497	1040	☐		Gas.
PTLK	5787	750	☐	400	Gas.
GLLP	7117	-580	☐		Gas. Possibly wet.
GRHN	7787	-1250	☐	2100	Gas possible, highly fractured
GRRS	7862	-1325	☐		
PAGU	7956	-1419	☐		Gas. Highly Fractured.
CBBO	7959	-1422	☐		Gas
CBRL	8006	-1469	☐		
TD	8068	-1531	☐		6-1/4" hole. 4-1/2", 11.6#, L-80, LT&C casing. Cement with 599 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.

Reference Wells:

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 31-6 UNIT 33N

DEVELOPMENT

Reference Type	Well Name	Comments
Intermediate	San Juan 31-6 25	33-31N-6W-NE, KB = 6499

Logging Program:

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

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

GR/CBL

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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Comments: Location/Tops/Logging - TD is 281' below GRHN

Zones - DK 31N06W34NW2 MVNM031N006W34NW2

General/Work Description - Directional from a multiple well location. - 2/28/07 name change from 33F to 33N per land wfp

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 31-6 #33N
Company:	ConocoPhillips Lower 48	TVD Reference:	Generic Rig KB @ 6536 0ft (Generic Rig)
Project:	San Juan Basin	MD Reference:	Generic Rig KB @ 6536 0ft (Generic Rig)
Site:	Russell's Site for Directional MV/DK wells	North Reference:	True
Well:	SJ 31-6 #33N	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 31-6 #33N		
Design:	Principal		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (d)	Dip Direction (d)
1,574 1	1,537 0	Nacimiento		0 00	
2,582 8	2,487 0	Ojo		0 00	
2,742 0	2,637 0	Kirtland		0 00	
3,219 4	3,087 0	Fruitland		0 00	
3,502 2	3,362 0	Pictured Cliffs		0 00	
3,703 4	3,562 0	Lewis		0 00	
4,788 4	4,647 0	Chacra		0 00	
5,598 4	5,457 0	Mass Cliffhouse		0 00	
5,638 4	5,497 0	Menefee		0 00	
5,928 4	5,787 0	Point Lookout		0 00	
7,258 4	7,117 0	Upper Gallup		0 00	
7,928 4	7,787 0	Greenhorn		0 00	
8,003 4	7,862 0	Graneros		0 00	
8,097 4	7,956 0	Paguate		0 00	
8,100 4	7,959 0	Cubero		0 00	
8,147 4	8,006 0	Lower Cubero		0 00	
8,209 4	8,068 0	TD		0 00	

Directions from the Post Office
in Blanco, NM
to
CONOCOPHILLIPS COMPANY
SAN JUAN 31-6 UNIT 33N
2490' FSL & 1910' FWL,
Section 34, T31N, R6W, N.M.P.M., Rio Arriba County,
New Mexico

From the Post Office in Blanco, NM
Take Highway 64 East for 28.8 miles
To Hwy 527 (Simms Mesa Hwy),
Turn left (northwest) on Hwy 527 for 8.0 miles,
To Rosa Road, turn right (northeast) for 6.6 miles,
Across La Jara Bridge to the top of the Mesa,
Turn left (northeast) 0.8 miles,
Continue (northwesterly) 0.5 miles,
Continue (easterly) 1.2 miles to fork,
Stay right (northwesterly) 0.5 miles,
Turn right (northerly) 0.2 miles to the newly staked location
on existing well pad, San Juan 31-6 Unit 219A.