

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	2007 AUG 3 PM 3 43	5. Lease Number SF-078999
1b. Type of Well GAS	RECEIVED 070 FARMINGTON NM	6. If Indian, All. or Tribe NMNM-78421B-DK NMNM78421A-MV
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 Surf: Unit H (SENE), 2005' FNL & 1235' FEL, BH: Unit H (SENE), 2400' FNL & 660' FEL Surf: Latitude 36° 51.4581 N Longitude 107° 26.6891 W Latitude 36° 51.4039 N Longitude 107° 26.5711 W		9. Well Number #33P
10. Field, Pool, Wildcat Blanco MV/Basin DK		11. Sec., Twn, Rge, Mer. (NMPM) H Sec. 34, T31N, R6W API # 30-38-30312 039
14. Distance in Miles from Nearest Town 22 miles/Gobernador	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 660'		
16. Acres in Lease	17. Acres Assigned to Well MV 320 E/2 DK 320 N/2	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 50' from San Juan 31-6 218		
19. Proposed Depth 8098' TVD/8176' TMD	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6515' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: Rhonda Rogers (Regulatory Technician)	8-2-07	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 ES-0048 and ES-0085

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

MAR 1 9 2010

NMOCD

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
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

2007 AUG 3 PM 3 45
Form C-102
Revised October 12, 2005
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30039-30312	*Pool Code 72319 \ 71599	*Pool Name BLANCO MESAVERDE \ BASIN DAKOTA
*Property Code 31328	*Property Name SAN JUAN 31-6 UNIT	*Well Number 33P
*GRID No. 217817	*Operator Name CONOCOPHILLIPS COMPANY	*Elevation 6515'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	34	31N	6W		2005	NORTH	1235	EAST	RIO ARriba

11 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
H	34	31N	6W		2400	NORTH	660	EAST	RIO ARriba

*Dedicated Acres	320.0 Acres - E/2 (MV) 320.0 Acres - N/2 (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 5280.00' LEASE SF-078999 5266.80' 34 5280.00' LEASE SF-078999 5280.00'	SURFACE LOCATION LAT: 36.85781°N LONG: 107.44542°W DATUM: NAD83 LAT: 36°51.4581'N LONG: 107°26.6891'W DATUM: NAD27 694.9' 556°09.0'E	2005' 2400' 1235' 660' BOTTOM-HOLE LOCATION LAT: 36°51.4039'N LONG: 107°26.5711'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, 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>Kandis Roland</i> 4/2/07 Signature Date Kandis Roland Printed Name 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 Survey Date: SEPTEMBER 5, 2006 Signature and Seal of Professional Surveyor  <i>JASON C. EDWARDS</i> Certificate Number 15269
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TECHNICAL SERVICE
A CORROSION SPECIALIST

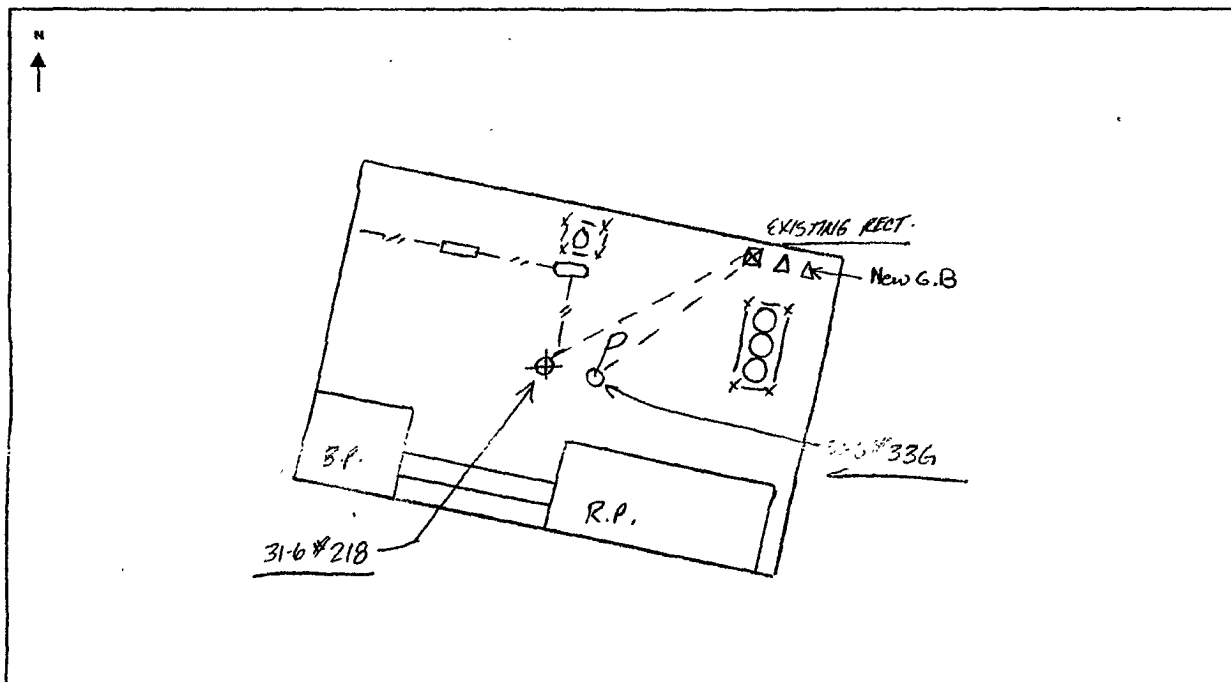
CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME S.J. 31-6 #336

LEGALS H-34-31-6

COUNTY R.A.

PURPOSED C.P. SYSTEM: Drill G.B. just east of existing G.B. and tie into the existing CP system on ST 31-6 #218. Trench approx 175' of #8 rebar from existing rectifier to proposed new well.



EXISTING WELLHEAD	METER HOUSE	G.B.	POWER SOURCE	CABLE	NEW WELL	OVERHEAD A.C.

COMMENTS:

NEAREST POWER SOURCE Existing Rect on ST 31-6 #218

DISTANCE: 175'

PIPELINES IN AREA:

TECHNICIAN: Michael J. Penney DATE: 11/7/06

6 CR 5412 BLOOMFIELD, N.M. 87413
OFFICE: 505-634-0271 CELL: 505-793-6953

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 31-6 UNIT 33P

DEVELOPMENT

2007 AUG 13

Lease:		AFE #: WAN.CNV.7201		API #: 51	
Field Name: 31-6		Rig: XXX 2009 Directional		State: NM	County: RIO ARRIBA
Geologist:		Phone:	Geophysicist:		Phone:
Geoscientist: Pippin, Eddie A		Phone: 505-326-9780	Prod. Engineer:		Phone:
Res. Engineer: Prabowo, Wahyu		Phone: 505-326-9797	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: 36.857804	Longitude: -107.444816	X: 613664.00	Y: 2131733.00	Section: 34	Range: 006W
Footage X: 1235 FEL	Footage Y: 2005 FNL	Elevation: 6515 (FT)	Township: 031N		
Tolerance:					
Location: Bottom Hole					
Datum Code: NAD 27		Deviated			
Latitude: 36.856732	Longitude: -107.442852	X: 614240.00	Y: 2131345.00	Section: 34	Range: 006W
Footage X: 660 FEL	Footage Y: 2400 FNL	Elevation:	(FT)	Township: 031N	
Tolerance:					
Location Type: Restricted		Start Date (Est.):		Completion Date:	
Date In Operation:					
Formation Data: Assume KB = 6529 Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT
Surface Casing	215	6314	☐		
NCMT	1529	5000	☐		
OJAM	2565	3964	☐		
KRLD	2687	3842	☐		
FRLD	3143	3386	☐		
PCCF	3380	3149	☐		
LEWS	3665	2864	☐		
Intermediate Casing	3765	2764	☐		
HURF	4243	2286	☐		
CHRA	4713	1816	☐		
UCLFH	5234	1295	☐		
CLFH	5471	1058	☐		
MENF	5529	1000	☐		
PTLK	5772	757	☐	500	
UPPER GLLP	6774	-245	☐		
GRHN	7793	-1264	☐	2000	
GRRS	7848	-1319	☐		
TWLS	7913	-1384	☐		
PAGU	7969	-1440	☐		
CBRL	8017	-1488	☐		
ENCN	8054	-1525	☐		
Remarks					
12-1/4" hole. 9-5/8", 32.3 ppf, H-40, ST&C casing. Cement with 170 cu. ft. Circulate cement to surface.					
Possible water flows.					
Possible gas.					
8-3/4" hole. 7", 23.0 ppf, L-80, LT&C casing. Cement with 865 cu. ft. Circulate cement to surface.					
Gas; possibly wet					
Gas.					
Gas.					
Gas. Possibly wet.					
Gas possible, highly fractured					
Gas. Highly Fractured.					
Gas					

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 31-6 UNIT 33P

DEVELOPMENT

TOTAL DEPTH DK 8098 -1569 ☐

6-1/4" hole. 4-1/2", 11.6 ppf, L-80, LT&C casing. Cement with 590 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:

Reference Type	Well Name	Comments
Intermediate	SJ 31-6 218	34-21N-6W-NE, KB = 6527
Intermediate	Rosa Unit 99	26-31N-6W-SW, KB = 6449
Intermediate	SJ 31-6 33	34-31N-6W-NE, KB = 6505
Intermediate	SJ 31-6 31E	35-31N-6W-SE, KB = 6453

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 - Reach = 694' Azimuth = 326 degrees, TD is 305' below GRHN (ENCN looks dry), last perf is 33' below T/ENCN - - DK offset under misc. under Doc. mgmt

Zones - DK 31N06W34NE2 AND MVNM031N006W34NE2

General/Work Description - 2/27/07 name chg from 33G to 33M & on 2/28/07 name chg from 33M to 33P per land wfp

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 31-6 #33P
Company:	ConocoPhillips Lower 48	TVD Reference:	Generic Rig @ 6530.0ft (Generic Rig KB)
Project:	San Juan Basin	MD Reference:	Generic Rig @ 6530.0ft (Genenc Rig KB)
Site:	Russell's Site for directional MV/DK wells	North Reference:	True
Well:	SJ 31-6 #33P	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal		
Design:	APD Directional Plan		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (d)	Dip Direction (d)	
1,552.3	1,529.0	Nacimiento		0.00		
2,617.3	2,565.0	Ojo		0.00		
2,742.7	2,687.0	Kirtland		0.00		
3,211.5	3,143.0	Fruitland		0.00		
3,454.9	3,380.0	Pictured Cliffs		0.00		
3,742.5	3,665.0	Lewis		0.00		
4,320.6	4,243.0	Huerfano Bentonite		0.00		
4,790.6	4,713.0	Chacra		0.00		
5,311.6	5,234.0	Upper Cliffhouse		0.00		
5,548.6	5,471.0	Mass. Cliffhouse		0.00		
5,606.6	5,529.0	Menefee		0.00		
5,849.6	5,772.0	Point Lookout		0.00		
6,851.6	6,774.0	Upper Gallup		0.00		
7,870.6	7,793.0	Greenhorn		0.00		
7,925.6	7,848.0	Graneros		0.00		
7,990.6	7,913.0	Two Wells		0.00		
8,046.6	7,969.0	Paguate		0.00		
8,094.6	8,017.0	Lower Cubero		0.00		
8,131.6	8,054.0	Encinal		0.00		
8,175.6	8,098.0	TD		0.00		