

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

APR 07 2010

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK Bureau of Land Management
Farmington Field Office

1a. Type of Work DRILL	5. Lease Number NM-012641 Unit Reporting Number	
1b. Type of Well GAS	6. If Indian, All. or Tribe	
2. Operator ConocoPhillips Company	7. Unit Agreement Name RCVD APR 29 '10 OIL CONS. DIV. DIST. 3	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Blanco 9. Well Number 13M	
4. Location of Well Surf: Unit G(SWNE), 1750' FNL & 1605' FEL Bottomhole: Unit H(ENE), 1690' FNL & 760' FEL Surf: Latitude: 36.8710651° N (NAD83) Longitude: 107.6414320° W Bottomhole: Latitude: 36.8712231° N (NAD83) Longitude: 107.6385455° W	10. Field, Pool, Wildcat Blanco MV / Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 26, T31N, R8W API # 30-045-35134	
14. Distance in Miles from Nearest Town 11 miles / Navajo Dam	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 760'	17. Acres Assigned to Well 320.00 E/2 (MV/DK)	
16. Acres in Lease 1,280.00		
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 223' from Blanco 202 (FC)		
19. Proposed Depth 7861' This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6329' GL	22. Approx. Date Work will Start DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Crystal Tafoya</u> Crystal Tafoya (Regulatory Technician)	4/7/2010 Date	

PERMIT NO.

APPROVAL DATE

APPROVED BY [Signature]

TITLE Acting AFM Minerals

DATE 4/27/10

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-0083

NOTIFY AZTEC OCD 24 HRS.

PRIOR TO CASING & CEMENT

BLM'S APPROVAL OR ACCEPTANCE OF THIS
OPERATOR'S PLAN DOES NOT RELIEVE THE LESSEE AND
OPERATOR FROM OBTAINING ANY OTHER
AUTHORIZATION REQUIRED FOR OPERATIONS
ON FEDERAL AND INDIAN LANDS

MAY 05 2010

Hold C104
for Directional Survey
and "As Drilled" plat

NMOCD 10

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

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

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

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

State of New Mexico
Energy, Minerals & Natural Resources Department

RECEIVED

Form C-102

Revised October 12, 2005

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, N.M. 87505

APR 07 2010

Bureau of Land Management
Farmington Field Office

Appropriate District Office

State Lease - 4 Copies

Geothermal Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35134		² Pool Code 72319 / 71599		³ Pool Name BLANCO MESA VERDE / DAKOTA		⁴ BASIN	
⁵ Property Code 31323		⁶ Property Name BLANCO				⁷ Well Number 13M	
⁸ OGRID No. 217817		⁹ Operator Name CONOCOPHILLIPS COMPANY				¹⁰ Elevation 6329	

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
G	26	31 N	8 W		1750	NORTH	1605	EAST	SAN JUAN

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	26	31 N	8 W		1690	NORTH	760	EAST	SAN JUAN

¹² Dedicated Acres 320 (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 S 89°57'47" E 2602.32' ○ = SURFACE LOCATION ● = BOTTOM HOLE LOCATION N 0°21'05" W 2592.66' 2588.41' N 0°21'05" W 2585.53' S 89°59'01" W 2618.72' S 89°57'19" W 2619.01'	S 89°56'49" E 2604.49' 1750' 1690' 760' 1605' N 85°59'11" E 846.28' SECTION 26 USA NM-012641 LAT: 36.8710651° N LONG: 107.6414320° W NAD 83 LAT: 36°52.26362' N LONG: 107°38.44922' W NAD 27 LAT: 36.8712231° N LONG: 107.6385455° W NAD 83 LAT: 36°52.27310' N LONG: 107°38.27604' W NAD 27	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. Signature <i>Crystal Tafoya</i> Date 4/7/10 Printed Name Crystal Tafoya 4/7/2010
	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 9/15/09 Signature and Seal of Professional Surveyor 17078 Certificate Number	
	NOTE: BEARINGS & DISTANCES SHOWN ARE REFERENCED TO THE NEW MEXICO COORDINATE SYSTEM, WEST ZONE, NAD 83.	
	MARSHALL W. LINDEN 25-17078 PROFESSIONAL SURVEYOR	

PROJECT PROPOSAL - New Drill / Sidetrack

BLANCO 13M
DEVELOPMENT

Lease:		AFE #: WAN.CDR.9203				AFE \$: 967,746.74	
Field Name: SAN JUAN		Rig: H&P Rig 282		State: NM	County: SAN JUAN		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist:		Phone:		Prod. Engineer:		Phone:	
Res. Engineer:		Phone:		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				Directional	
Latitude: 36.871060	Longitude: -107.640820	X:	Y:	Section: 26	Range: 008W		
Footage X: 1605 FEL	Footage Y: 1750 FNL	Elevation: 6329	(FT)	Township: 031N			
Tolerance:							
Location: Bottom Hole		Datum Code: NAD 27				Directional	
Latitude: 36.871218	Longitude: -107.637934	X:	Y:	Section: 26	Range: 008W		
Footage X: 760 FEL	Footage Y: 1690 FNL	Elevation:	(FT)	Township: 031N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2011		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6334 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	6134	☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.	
NACIMIENTO	684	5650	☐				
OJO ALAMO	2086	4248	☐				
KIRTLAND	2186	4148	☐				
FRUITLAND	2762	3572	☐			Possible Gas	
PICTURED CLIFFS	3256	3078	☐				
LEWIS	3338	2996	☐				
Intermediate Casing	3438	2896	☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 819 cuft. Circulate cement to surface.	
HUERFANITO BENTONITE	3976	2358	☐				
CHACRA	4354	1980	☐				
UPPER CLIFF HOUSE	5136	1198	☐			Gas Est. Top Perf - 5138 (1196)	
MASSIVE CLIFF HOUSE	5142	1192	☐	374		Gas	
MENEFEE	5196	1138	☐				
POINT LOOKOUT	5518	816	☐				
MANCOS	5892	442	☐				
UPPER GALLUP	6784	-450	☐				
GREENHORN	7524	-1190	☐				
GRANEROS	7576	-1242	☐				
TWO WELLS	7666	-1332	☐	3392		Gas	
PAGUATE	7696	-1362	☐				
UPPER CUBERO	7718	-1384	☐				
LOWER CUBERO	7748	-1414	☐			Est. Btm Perf - 7846 (-1512) based on offset wells	

PROJECT PROPOSAL - New Drill / Sidetrack

BLANCO 13M

DEVELOPMENT

ENCINAL	7816	-1482	☐	TD - 45' below T/ENCN; Suggest no perfs within 30' zone above T/ENCN
Total Depth	7861	-1527	☐	6-1/4" hole, 4-1/2" 11.6 ppf, LTC casing. Cement w/ 602 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:		
Reference Type	Well Name	Comments
Production	Blanco 11A	31N 8W 26 NW SE SE
Production	Blanco 13	31N 8W 26 NE NW SE
Production	SJ 32-8 1B	31N 8W 23 SE
Production	NE Blanco 50-25	31N 8W 25 NE SW SW
Production	Blanco 202	31N 8W 26 NE SW NE

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

TD Logs:	☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other
Cased Hole GR / CBL	
Mudlog from 100' above top of GRHN to TD - mudlogger will call TD.	

Additional Information:					
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks

ConocoPhillips or its affiliates

Planning Report

Database:	EDM.Central Planning	Local Co-ordinate Reference:	Well Blanco #13M
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6336.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	WELL @ 6336.0ft (Original Well Elev)
Site:	Other Named Wells	North Reference:	True
Well:	Blanco #13M	Survey Calculation Method:	Minimum Curvature
Wellbore Design:	Wellbore #1 Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
7,876.8	7,748.0	Lower Cubero		0.00		
6,020.8	5,892.0	Mancos Shale		0.00		
686.2	684.0	Nacimiento		0.00		
3,384.5	3,256.0	Pictured Cliffs		0.00		
7,944.8	7,816.0	Encinal		0.00		
2,876.2	2,762.0	Fruitland		0.00		
3,466.7	3,338.0	Lewis		0.00		
5,324.8	5,196.0	Menefee		0.00		
5,270.8	5,142.0	Massive Cliffhouse		0.00		
7,704.8	7,576.0	Graneros		0.00		
4,104.8	3,976.0	Huerf. Bent.		0.00		
4,482.8	4,354.0	Chacra		0.00		
2,162.1	2,086.0	Ojo Alamo		0.00		
7,846.8	7,718.0	Upper Cubero		0.00		
2,267.7	2,186.0	Kirtland		0.00		
7,794.8	7,666.0	Two Wells		0.00		
5,646.8	5,518.0	Pt. Lookout		0.00		
7,824.8	7,696.0	Paguate		0.00		
7,652.8	7,524.0	Greenhorn		0.00		
6,912.8	6,784.0	Gallup		0.00		

REFERENCE INFORMATION

WELL @:6336.0ft (Original Well Elev)
Ground Elevation 6320.0
Reference Lat: 36° 52' 15.817 N
Reference Long: 107° 38' 26.953 W

Project: San Juan Basin - New Mexico Well
Site: Other Named Wells
Well: Blanco #13M
Wellbore: Wellbore #1
Design: Plan #1

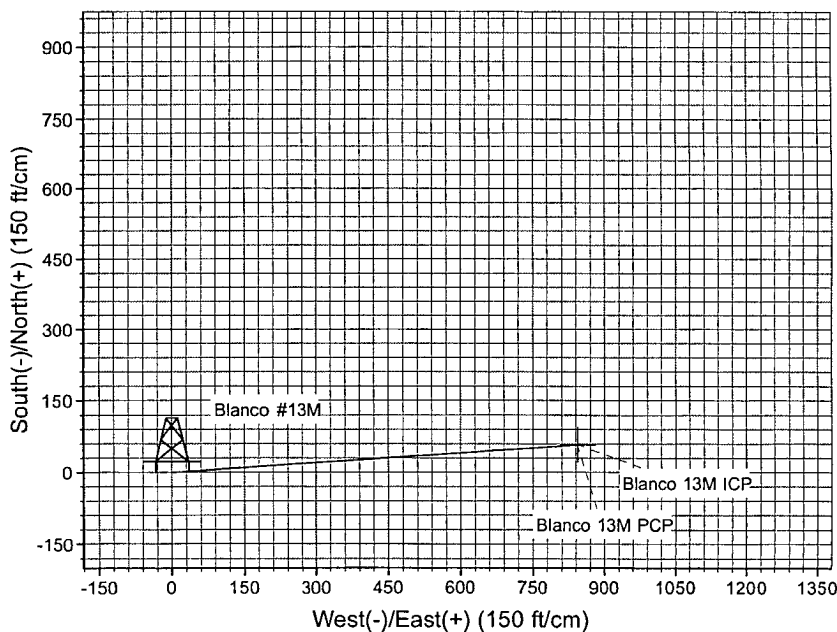
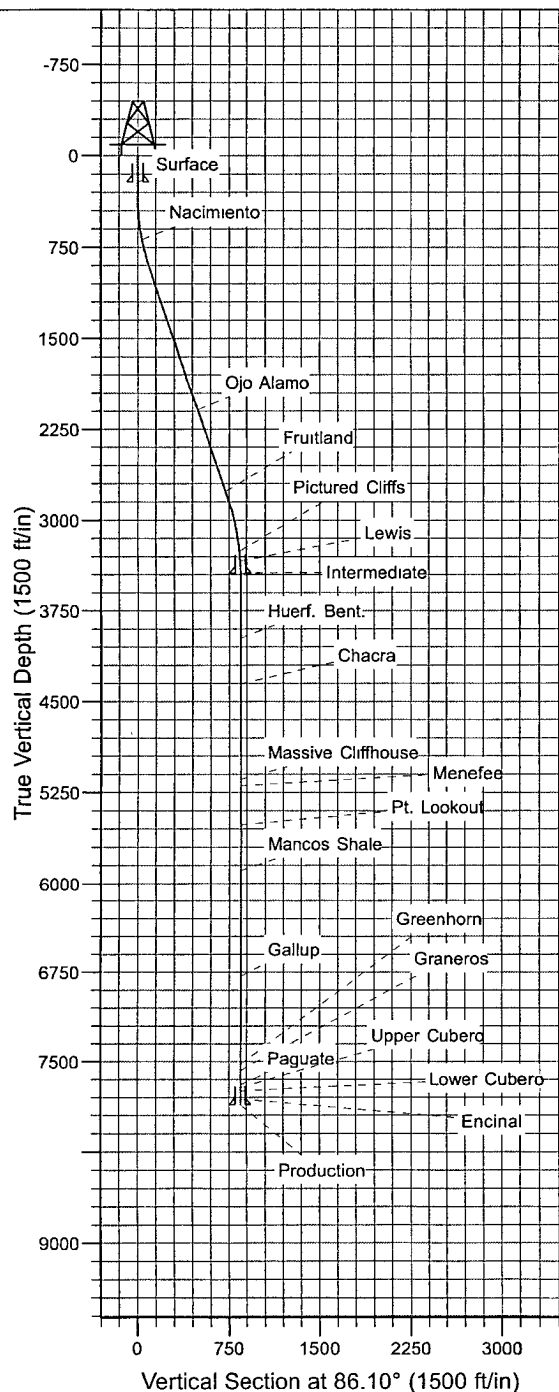
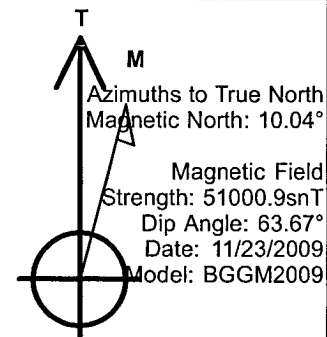


SECTION DETAILS

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	946.8	18.80	86.10	935.6	6.9	101.7	3.00	86.10	101.9	
4	2940.0	18.80	86.10	2822.4	50.6	742.7	0.00	0.00	744.4	
5	3566.8	0.00	0.00	3438.0	57.6	844.4	3.00	180.00	846.3	Blanco 13M ICP
6	7989.8	0.00	0.00	7861.0	57.6	844.4	0.00	0.00	846.3	Blanco 13M PCP

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
684.0	686.2	Nacimiento
2086.0	2162.1	Ojo Alamo
2186.0	2267.7	Kirtland
2762.0	2876.2	Fruitland
3256.0	3384.5	Pictured Cliffs
3338.0	3466.7	Lewis
3976.0	4104.8	Huerf. Bent.
4354.0	4482.8	Chacra
5142.0	5270.8	Massive Cliffhouse
5196.0	5324.8	Menefee
5518.0	5646.8	Pt. Lookout
5892.0	6020.8	Mancos Shale
6784.0	6912.8	Gallup
7524.0	7652.8	Greenhorn
7576.0	7704.8	Graneros
7666.0	7794.8	Two Wells
7696.0	7824.8	Paguate
7718.0	7846.8	Upper Cubero
7748.0	7876.8	Lower Cubero
7816.0	7944.8	Encinal



CONOCOPHILLIPS COMPANY

BLANCO 13M

1750' FNL & 1605' FEL (SURFACE LOCATION)

1690' FNL & 760' FEL (BOTTOM HOLE LOCATION)

LATITUDE: 36.8710651° N

LONGITUDE: 107.6414320° W

NAD 83

SECTION 26, T-31-N, R-8-W, N.M.P.M.

SAN JUAN COUNTY, NEW MEXICO

FROM THE INTERSECTION OF U.S. HIGHWAY 550 AND
N.M. HIGHWAY 173 IN AZTEC, NEW MEXICO.

TRAVEL EASTERLY 17.5 MILES ON N.M. HIGHWAY 173 TO
N.M. HIGHWAY 173 & N.M. HIGHWAY 511 INTERSECTION.

TURN LEFT ONTO N.M. HIGHWAY 511 AND TRAVEL
EASTERLY 5.6 MILES.

TURN LEFT AT TEE INTERSECTION (DAM CROSSING) AND CONTINUE ON
N.M. HIGHWAY 511 NORTHERLY 4.5 MILES.

TURN LEFT AT TEE INTERSECTION AND TRAVEL
WESTERLY 0.3 MILE.

TURN RIGHT AT TEE INTERSECTION & TRAVEL
NORTHWESTERLY 0.5 MILE.

TURN RIGHT AT TEE INTERSECTION TO EXISTING BLANCO 11 WELL
LOCATION, PROPOSED ACCESS REROUTE TO
BLANCO 202 WELL LOCATION AND
PROPOSED BLANCO 13M WELL LOCATION.