

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RCVD JAN 12 '10

OIL CONS. DIV.

DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	RECEIVED	5. Lease Number SF-079295 Unit Reporting Number
1b. Type of Well GAS	DEC 14 2009	6. If Indian, All. or Tribe
2. Operator ConocoPhillips Company	Bureau of Land Management Farmington Field Office	7. Unit Agreement Name NM NM-73930-OK NM NM-94022-MV
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700		8. Farm or Lease Name Federal 9. Well Number 12N
4. Location of Well Surf: Unit K (NESW), 1885' FSL & 1490' FWL Bottomhole: Unit K (NESW), 2555' FSL & 1870' FWL Surf: Latitude: 36.47028° N (NAD83) Longitude: 107.44120° W Bottomhole: Latitude: 36.47212° N (NAD83) Longitude: 107.43990° W		10. Field, Pool, Wildcat Blanco MV / Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) K Sec. 23, T26N, R6W API # 30-039-30876
14. Distance in Miles from Nearest Town 46 miles / Bloomfield	12. County Rio Arriba	13. State NM.
15. Distance from Proposed Location to Nearest Property or Lease Line 1490'		
16. Acres in Lease 641.610	17. Acres Assigned to Well 320.00 W/2 (MV/DK)	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 629' from Federal 12E (DK)		
19. Proposed Depth 7599'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6731' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Crystal Tafoya</u> Crystal Tafoya (Regulatory Technician)		APPROVAL OR ACCEPTANCE OF THIS OPERATOR DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS 12/14/2009 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 NMB-000015 and NMB-000089

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

for Directional Survey and "As Drilled" plat

NMOCD

NOTIFY AZTEC 24 HRS.
PRIOR TO CASING & CEMENT

JAN 13 2010

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

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

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

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

DISTRICT IV
1220 South St. Francis Dr., Santa Fe, N.M. 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 - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30870	² Pool Code 71599/72319	³ Pool Name BASIN DAKOTA / BLANCO MESAVERDE
⁴ Property Code 31535	⁵ Property Name FEDERAL	⁶ Well Number 12N
⁷ GRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY	⁹ Elevation 6731'

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
K	23	26-N	6-W		1885	SOUTH	1490	WEST	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
K	23	26-N	6-W		2555	SOUTH	1870	WEST	RIO ARriba

¹² Dedicated Acres W/2 - 320 ACRES	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 USA SF-079296 FD. 3 1/4" BC. 1956 B.L.M.	<u>PRELIMINARY B.H.L.</u> B.H.L. FOOTAGES ARE APPROXIMATE AND PROVIDED BY <u>CONOCOPHILLIPS</u> CLIENT <u>BOTTOM HOLE:</u> LAT: 36.47212° N. (NAD 83) LONG: 107.43990° W. (NAD 83) LAT: 36°28.32674' N. (NAD 27) LONG: 107°26.35772' 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. <i>Marie E. Jaramillo</i> 4/3/09 Signature Date Marie E. Jaramillo 4/3/09 Printed Name
23 1870' USA SF-079295 1490' N 00°03'35" E 2679.70' (M) 1885' 2555' B.H.L. <u>SURFACE:</u> LAT: 36.47028° N. (NAD 83) LONG: 107.44120° W. (NAD 83) LAT: 36°28.21597' N. (NAD 27) LONG: 107°26.43587' W. (NAD 27) WITNESS CORNER FD. 3 1/4" BC. 1956 B.L.M. CALC'D. CORNER FROM W.C. S 89°48'58" W 46.78'	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 knowledge and belief. MARCH 24 2009 Date of Survey Signature and Seal of Professional Surveyor Certificate Number	

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

FEDERAL 12N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8126				AFE \$: 1,017,348.51	
Field Name: SAN JUAN		Rig: Aztec Rig 711		State: NM	County: RIO ARRIBA	API #:	
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist: Head, Chip F (Charles)		Phone: +1-505-326-9772		Prod. Engineer:		Phone:	
Res. Engineer: Prabowo, Wahyu		Phone: +1-505-326-9797		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: 36.470270	Longitude: -107.440597	X:	Y:	Section: 23		Range: 006W	
Footage X: 1490 FWL	Footage Y: 1885 FSL	Elevation: 6731	(FT)	Township: 026N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Directional							
Latitude: 36.472110	Longitude: -107.439297	X:	Y:	Section: 23		Range: 006W	
Footage X: 1870 FWL	Footage Y: 2555 FSL	Elevation:	(FT)	Township: 026N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2011		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6747 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	320	6427	☐			320' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 244 cuft. Circulate cement to surface.	
OJO ALAMO	2459	4288	☐				
KIRTLAND	2620	4127	☐				
FRUITLAND	2699	4048	☐			Possible Gas	
PICTURED CLIFFS	3070	3677	☐				
LEWIS	3199	3548	☐				
HUERFANITO BENTONITE	3522	3225	☐				
CHACRA	3962	2785	☐				
MASSIVE CLIFF HOUSE	4739	2008	☐				
MENEFEE	4772	1975	☐				
Intermediate Casing	4922	1825	☐			8-3/4" hole, 7" 23# J-55-L-80 LTC casing. Cement with 1139 cuft. Circulated cement to surface.	
POINT LOOKOUT	5302	1445	☐	520		GAS	
MANCOS	5657	1090	☐				
UPPER GALLUP	6387	360	☐				
GREENHORN	7217	-470	☐				
GRANEROS	7272	-525	☐				
TWO WELLS	7302	-555	☐	2033		Gas	
UPPER CUBERO	7433	-686	☐				
LOWER CUBERO	7469	-722	☐				
OAK CANYON	7495	-748	☐				
ENCINAL	7547	-800	☐				

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

FEDERAL 12N

DEVELOPMENT

Total Depth	7599	-852	☐	6-1/4" hole, 4-1/2" 11.6 ppf, J-55/L-80 LTC casing. Cement with 369 cuft. Circulate cement a minimum of 100' into previous casing
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Reference Wells:

Reference Type	Well Name	Comments
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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 the Greenhorn to TD. Mudloggers will call final TD. Est bottom perf ~20' above the est 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 Federal #12N
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6747.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6747.0ft (Original Well Elev)
Site:	Other Named Wells	North Reference:	True
Well:	Federal #12N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
7,426.9	7,302.0	Two Wells		0.00	
7,396.9	7,272.0	Graneros		0.00	
4,086.9	3,962.0	Chacra		0.00	
6,511.9	6,387.0	Upper Gallup		0.00	
4,896.9	4,772.0	Menefee		0.00	
7,619.9	7,495.0	Oak Canyon		0.00	
7,593.9	7,469.0	Lower Cubero		0.00	
3,323.8	3,199.0	Lewis		0.00	
4,863.9	4,739.0	Massive Cliff House		0.00	
7,341.9	7,217.0	Greenhorn		0.00	
2,556.8	2,459.0	Ojo Alamo		0.00	
2,729.6	2,620.0	Kirtland		0.00	
3,194.3	3,070.0	Pictured Cliffs		0.00	
5,781.9	5,657.0	Mancos		0.00	
7,557.9	7,433.0	Upper Cubero		0.00	
3,646.9	3,522.0	Huerfano Bentonite		0.00	
2,813.5	2,699.0	Fruitland		0.00	
5,426.9	5,302.0	Point Lookout		0.00	
7,671.9	7,547.0	Encinal		0.00	

REFERENCE INFORMATION

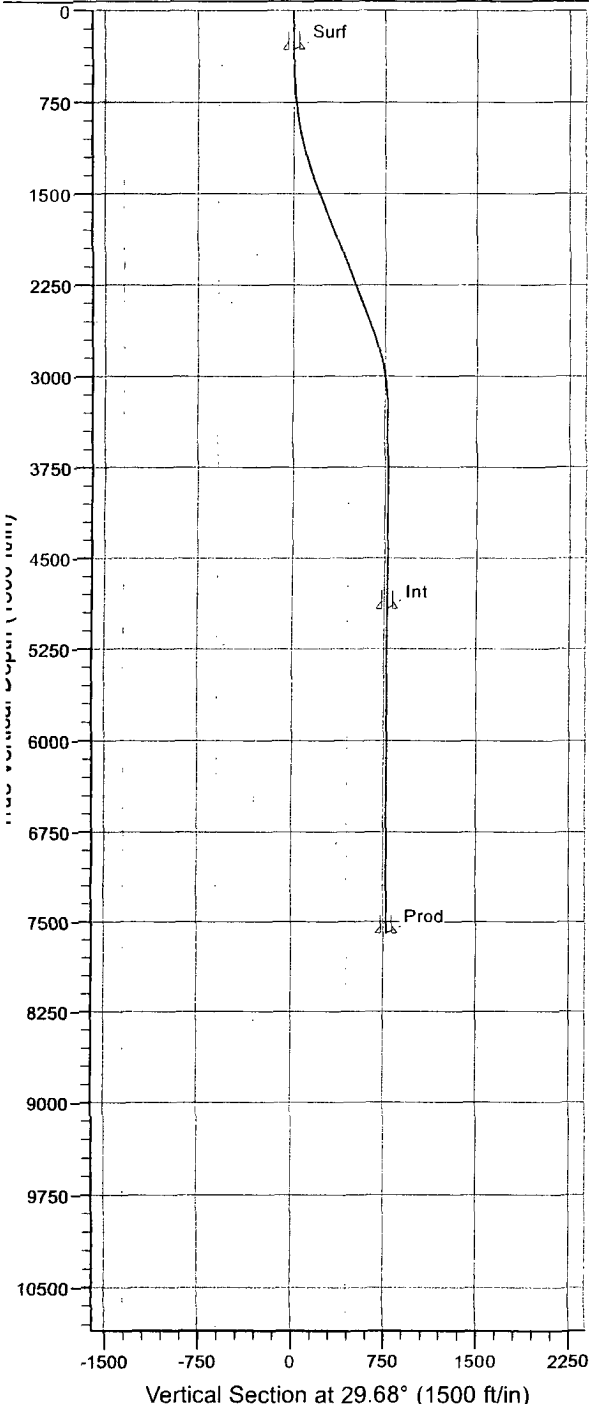
RKB @ 6747.0ft (Original Well Elev)
Ground Elevation 6731.0
Reference Lat: 36° 28' 12.958 N
Reference Long: 107° 26' 26.152 W

Project: San Juan Basin - New Mexico Wells
Site: Other Named Wells
Well: Federal #12N
Wellbore: Principal Wellbore
Design: Plan #1



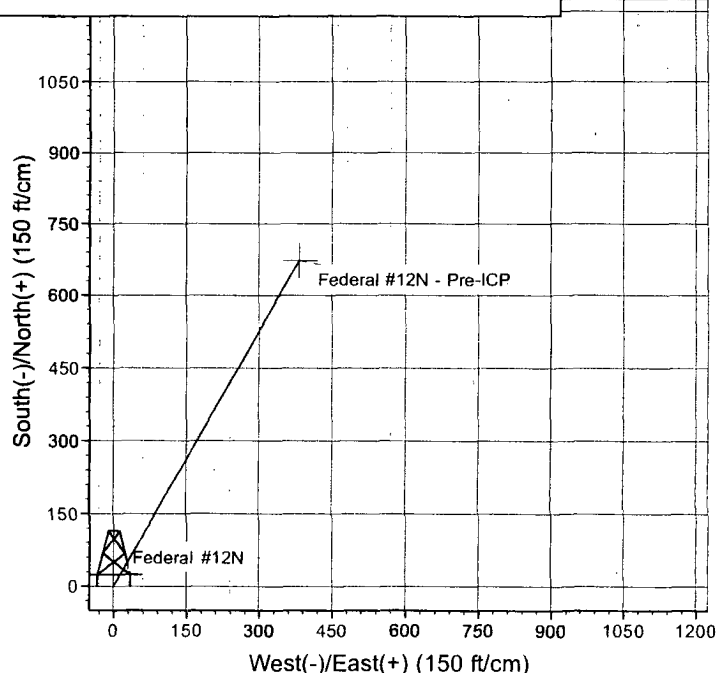
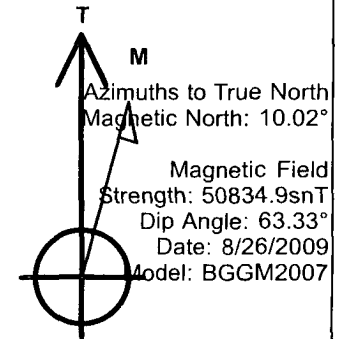
SECTION DETAILS

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	420.0	0.00	0.00	420.0	0.0	0.0	0.00	0.00	0.0	
3	1486.7	21.33	29.68	1462.2	170.5	97.2	2.00	29.68	196.3	
4	2713.8	21.33	29.68	2605.2	558.4	318.2	0.00	0.00	642.7	
5	3424.9	0.00	0.00	3300.0	672.1	383.0	3.00	180.00	773.6	Federal #12N - Pre-ICP
6	5046.9	0.00	0.00	4922.0	672.1	383.0	0.00	0.00	773.6	Federal #12N - ICP
7	7723.9	0.00	0.00	7599.0	672.1	383.0	0.00	0.00	773.6	Federal #12N - PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2018.0	2556.8	Ojo Alamo
2179.0	2729.6	Kirtland
2258.0	2813.5	Fruitland
2629.0	3194.3	Pictured Cliffs
2758.0	3323.8	Lewis
3081.0	3646.9	Huerfano Bentonite
3521.0	4086.9	Chacra
4298.0	4863.9	Massive Cliff House
4331.0	4896.9	Menefee
4861.0	5426.9	Point Lookout
5216.0	5781.9	Mancos
5946.0	6511.9	Upper Gallup
6776.0	7341.9	Greenhorn
6831.0	7396.9	Graneros
6861.0	7426.9	Two Wells
6992.0	7557.9	Upper Cubero
7028.0	7593.9	Lower Cubero
7054.0	7619.9	Oak Canyon
7106.0	7671.9	Encinal





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[illegible]

**Directions from the Bloomfield, New Mexico post office to the
Conoco Phillips Company**

Federal #12N well location

1885' FSL, 1490' FWL, Section 23, T26N R6W, N.M.P.M.

From the Bloomfield, New Mexico post office (Lat. 36.71111° N, Long. 107.99250° W):

Travel east on Hwy. 64 0.4 mi. to the intersection with Hwy. 550 (Lat. 36.71111° N, 107.98472° W).

Turn right (south) on hwy. 550 and travel southwesterly 1.0 mi. to C.R. 4550 (Sullivan Road) (Lat. 36.69639° N, Long. 107.98750° W).

Turn left on CR 4990 and travel easterly 15.0 mi. to C.R. 4550 at the Largo Wash Bridge (Lat. 36.68694° N, Long. 107.75694° W).

Travel southeasterly on C.R. 4550 21.3 mi. to the old Largo School (Lat. 36.47972° N, Long. 107.52806° W).

Continue northeasterly on the main road, across Largo Wash and up through Ice Canyon, 3.8 mi. to the old corrals on the left (west) side of the road (Lat. 36.51028° N, Long. 107.47917° W).

Turn right on a field road and travel southeasterly 1.3 mi. to a four-way intersection at the top of a hill (Lat. 36.49500° N, Long. 107.46639° W).

Continue southeasterly at this intersection 1.5 mi. to a T-intersection at the top of another hill (Lat. 36.49139° N, Long. 107.44250° W).

Turn right at this intersection and travel south 1.0 mi. to a fork in the road just west of a large microwave tower at the top of a hill (Lat. 36.47722° N, Long. 107.44028° W).

Take the fork to the left and travel south, down the hill 0.42 mi. to the access Take Off on the left side (east) of the road (Lat. 36.47039° N, Long. 107.44219° W).

The new access continues southeasterly 97.71' to the new location (Lat. 36.47028° N, Long. 107.44120° W).