

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

FEB 23 2010

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

1a. Type of Work DRILL	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	5. Lease Number SF-078739 Unit Reporting Number NM NM-78419A (MV)
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 9. Well Number 84A
4. Location of Well Surf: Unit J(NWSE), 1905' FSL & 1684' FEL Bottomhole: Unit I(NESE), 2300' FSL & 825' FEL Surf: Latitude: 36.767139° N (NAD83) Longitude: 107.359497° W Bottomhole: Latitude: 36.768228° N (NAD83) Longitude: 107.356564° W		10. Field, Pool, Wildcat Blanco MV / Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) J Sec. 33, T30N, R5W API # 30-039-30927
14. Distance in Miles from Nearest Town 63 miles / Bloomfield	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 825'		
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, Drlg, Compl, or Applied for on this Lease 101' from San Juan 30-5 Unit 84 (MV/PC)		
19. Proposed Depth 8063'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6663' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Crystal Tafuya</u> Crystal Tafuya (Regulatory Tech)	Date: <u>2/23/2010</u>	

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

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

NMOCD

MAR 17 2010

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

for Directional Survey
and "As Drilled" plat

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

Hold C104

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

RECEIVED

FEB 23 2010

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 7 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

Bureau of Land Management
WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30927		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 84A
⁷ OGRID No. 217817		⁸ Operator Name CONOCOPHILLIPS COMPANY			⁹ Elevation 6663

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
J	33	30-N	5-W		1905	SOUTH	1684	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
I	33	30-N	5-W		2300	SOUTH	825	EAST	RIO ARRIBA

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.		E/2 DEDICATED ACREAGE USA SF-078739 SECTION 33, T-30-N, R-5-W	
WELL FLAG NAD 83 LAT: 36.767139° N LONG: 107.358497° W NAD 27 LAT: 36°46.027945' N LONG: 107°21.533761' W		BOTTOM HOLE NAD 83 LAT: 36.768226° N LONG: 107.358564° W NAD 27 LAT: 36°46.093292' N LONG: 107°21.357780' W	
N 84°56'26" E 946.2'		825' 1684' 1905' 2300' 2640.0' (R) (M) 2636.1' (R) (M) 2562.3' (M) GLO 1914 2574.0' (R)	
W.C. GLO 1914 N 89°35'25" E EAST		GLO 1916	

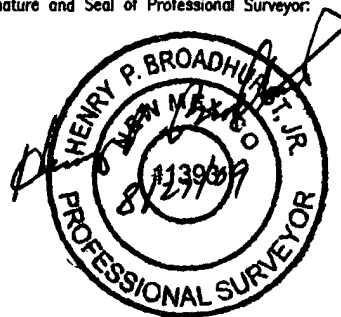
¹⁷ OPERATOR CERTIFICATION

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.

Crystal Tafoya 9/1/09
Signature
Crystal Tafoya
Printed Name
Regulatory Technician
Title and E-mail Address
September 1st, 2009
Date

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: 8/12/09
Signature and Seal of Professional Surveyor:

 Certificate Number: NM 11393

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-5 UNIT 84A

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9144				AFE \$: 1,705,212.10	
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						
FRR	BASIN DAKOTA (PRORATED GAS)						
RON	BLANCO MESAVERDE (PRORATED GAS)						
Location: Surface Datum Code: NAD 27 Directional							
Latitude: 36.767132	Longitude: -107.358895	X:	Y:	Section: 33	Range: 005W		
Footage X: 1684 FEL	Footage Y: 1905 FSL	Elevation: 6663	(FT)	Township: 030N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Directional							
Latitude: 36.768221	Longitude: -107.355962	X:	Y:	Section: 33	Range: 005W		
Footage X: 825 FEL	Footage Y: 2300 FSL	Elevation:	(FT)	Township: 030N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2011		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6678 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	6478	☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.	
NACIMIENTO	1572	5106	☐				
OJO ALAMO	2853	3825	☐				
KIRTLAND	2963	3715	☐				
FRUITLAND	3053	3625	☐	350		Possible Gas	
PICTURED CLIFFS	3612	3066	☐	430			
LEWIS	3705	2973	☐				
Intermediate Casing	3805	2873	☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 891 cuft. Circulate cement to surface.	
HUERFANITO BENTONITE	4399	2279	☐				
CHACRA	4693	1985	☐				
MASSIVE CLIFF HOUSE	5533	1145	☐	650		Gas	
MENEFEE	5581	1097	☐				
POINT LOOKOUT	5833	845	☐				
MANCOS	6214	464	☐				
UPPER GALLUP	7055	-377	☐				
GREENHORN	7793	-1115	☐				
GRANEROS	7847	-1169	☐				
TWO WELLS	7970	-1292	☐	3350		Gas	
PAGUATE	7980	-1302	☐			Bottom perf 17' or 34' off bottom pending sand targeted	
UPPER CUBERO	7988	-1310	☐			Complete only 1st or maybe 2nd sand in CBRL - better wells stay high	
LOWER CUBERO	8017	-1339	☐			TD 46' below T/CBRL = top of OKCN shale	

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 30-5 UNIT 84A

DEVELOPMENT

J-55

Total Depth	8063	-1385	☐	6-1/4" hole, 4-1/2" 11.6 ppf, LTC casing. Cement w/ 580 cuft. Circulate cement a minimum of 100' inside the previous casing string.
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Reference Wells:		
Reference Type	Well Name	Comments
Production	30-5 100 & 102	section 35 30-5
Production	Creek 1	section 4 29-5
Production	30-5 99	ne33 30-5
Production	30-5 86	sw34 30-5

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

TD Logs:	☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other
No open hole logs required. Mudlog from 100' above Greenhorn to TD - loggers 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 SJ 30-5 #84A
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6678.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	WELL @ 6678.0ft (Original Well Elev)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-5 #84A	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 30-5 #84A		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
8,129.0	7,980.0	Paguate		0.00		
5,982.0	5,833.0	Pt. Lookout		0.00		
3,182.3	3,053.0	Fruitland		0.00		
3,760.7	3,612.0	Pictured Cliffs		0.00		
8,119.0	7,970.0	Two Wells		0.00		
8,137.0	7,988.0	Upper Cubero		0.00		
8,166.0	8,017.0	Lower Cubero		0.00		
4,548.0	4,399.0	Huerf. Bent.		0.00		
5,730.0	5,581.0	Menefee		0.00		
5,682.0	5,533.0	Massive Cliffhouse		0.00		
2,969.6	2,853.0	Ojo Alamo		0.00		
6,363.0	6,214.0	Mancos Shale		0.00		
1,607.5	1,572.0	Nacimiento		0.00		
4,842.0	4,693.0	Chacra		0.00		
3,086.6	2,963.0	Kirtland		0.00		
7,942.0	7,793.0	Greenhorn		0.00		
7,204.0	7,055.0	Upper Gallup		0.00		
7,996.0	7,847.0	Graneros		0.00		
3,854.0	3,705.0	Lewis		0.00		

REFERENCE INFORMATION

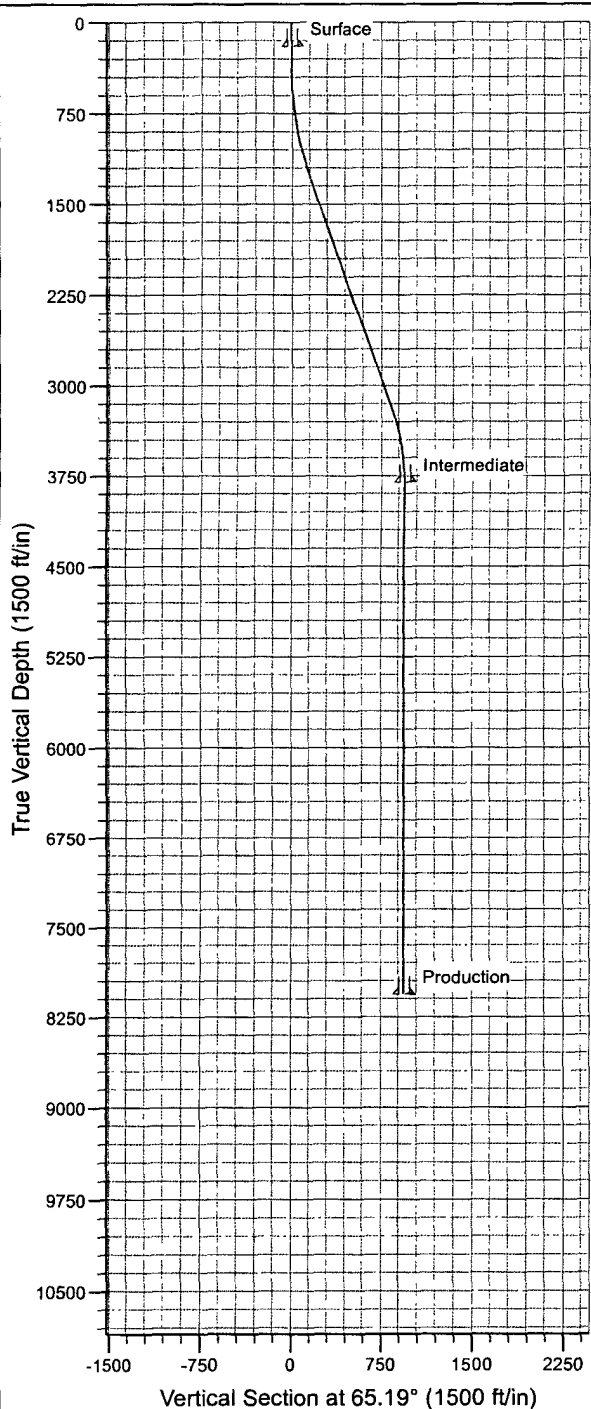
WELL @ 6678.0ft (Original Well Elev)
Ground Elevation 6663.0
Reference Lat: 36° 46' 1.668 N
Reference Long: 107° 21' 32.022 W

Project: San Juan Basin - New Mexico Wells
Site: San Juan 30 Wells
Well: SJ 30-5 *84A
Wellbore: SJ 30-5 #84A
Design: Plan #1



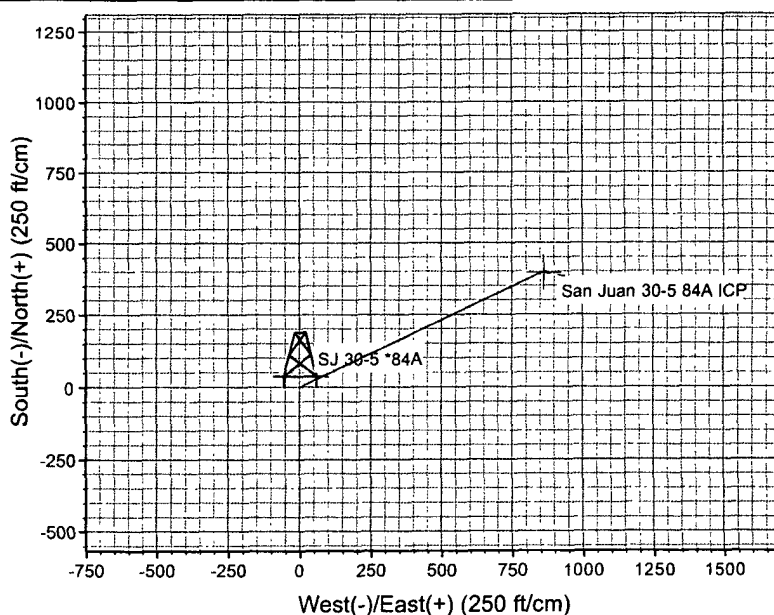
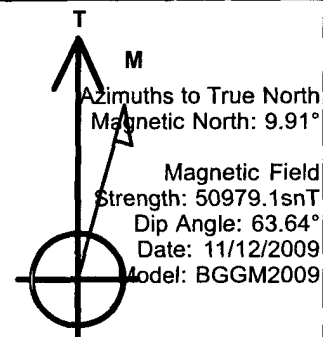
SECTION DETAILS

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	350.0	0.00	0.00	350.0	0.0	0.0	0.00	0.00	0.0	
3	1343.7	19.87	65.19	1323.9	71.6	154.9	2.00	65.19	170.6	
4	3291.6	19.87	65.19	3155.8	349.5	755.9	0.00	0.00	832.8	
5	3954.0	0.00	0.00	3805.0	397.2	859.1	3.00	180.00	946.5	San Juan 30-5 84A ICP
6	8212.0	0.00	0.00	8063.0	397.2	859.1	0.00	0.00	946.5	San Juan 30-5 84A PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1572.0	1607.5	Nacimiento
2853.0	2969.6	Ojo Alamo
2963.0	3086.6	Kirtland
3053.0	3182.3	Fruitland
3612.0	3760.7	Pictured Cliffs
3705.0	3854.0	Lewis
4399.0	4548.0	Huerf. Bent.
4693.0	4842.0	Chacra
5533.0	5682.0	Massive Cliffhouse
5581.0	5730.0	Menefee
5833.0	5982.0	Pt. Lookout
6214.0	6363.0	Mancos Shale
7055.0	7204.0	Upper Gallup
7793.0	7942.0	Greenhorn
7847.0	7996.0	Graneros
7970.0	8119.0	Two Wells
7980.0	8129.0	Paguate
7988.0	8137.0	Upper Cubero
8017.0	8166.0	Lower Cubero



CONOCOPHILLIPS COMPANY

SAN JUAN 30-5 UNIT #84A
1905' FSL, 1684' FEL
SECTION 33, T-30-N, R-5-W, N.M.P.M.,
RIO ARriba COUNTY, NEW MEXICO
NAD 83 LAT.: 36.767139°N LONG.: 107.359497°W
ELEV.: 6663 NAVD88
NEW ACCESS 113.5'

FROM BLOOMFIELD, NEW MEXICO:

- GO 50.1 MI. EAST TO MILE POST 114.4 ON HWY. 64 TOWARD DULCE, N.M. TURN LEFT AT F.R. 310.
- GO 3.8 MI. NORTH ON F.R. 310. TURN LEFT (SOUTH) ON F.R. 312. (TO MESTENAS MESA)
- GO 2.8 MI. SOUTHWESTERLY ALONG MESTENAS MESA. TURN RIGHT (WEST).
- GO 0.4 MI. WEST. TURN LEFT AT FORK IN ROAD.
- GO 2.2 MI. WESTERLY ALONG MESTENAS MESA GOING DOWN STEEP GRADE OFF OF MESA. CONTINUE WEST FROM ROAD INTERSECTION. (NOTE: TAKING THE RIGHT TURN AT THIS INTERSECTION WILL TAKE YOU INTO MANUEL CANYON AND ESPINOSA RANCH. THIS ROAD MAY BE CLOSED AND IS STEEP WITH HAIR PIN CURVES.)
- GO 0.9 MI. WEST FROM INTERSECTION. TURN RIGHT (NORTH).
- GO 0.4 MI. NORTH. TURN LEFT (SOUTHWEST).
- GO 0.3 MI. SOUTHWEST. TURN RIGHT (NORTHWEST).
- GO 0.5 MI. NORTHWEST. TURN LEFT (SOUTH).
- GO 0.3 MI. SOUTH. TURN RIGHT (WEST).
- GO 0.9 MI. WESTERLY OFF MESA, DOWN STEEP ROAD TO EXISTING WELL LOCATION FOR SJ 30-5 UNIT #84. NEW WELL STAKED AS TWIN HERE.