

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

FEB 24 2010

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

1a. Type of Work DRILL	JLH'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-078994 Unit Reporting Number
1b. Type of Well GAS		6. 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 47N
4. Location of Well Surf: Unit L(NWSW), 1376' FSL & 1148' FWL Bottomhole: Unit K(NESW), 1350' FSL & 2370' FWL Surf: Latitude: 36.809159° N (NAD83) Longitude: 107.385764° W Bottomhole: Latitude: 36.809088° N (NAD83) Longitude: 107.381590° W		10. Field, Pool, Wildcat Blanco MV / Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) L Sec. 17, T30N, R5W API # 30-039- 30933
14. Distance in Miles from Nearest Town 56 miles / Bloomfield	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1148'		
16. Acres in Lease 1,080.00	17. Acres Assigned to Well 320.00 4/2 - MV/DK wla	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 52' from San Juan 30-5 Unit 224 (FC)		
19. Proposed Depth 7928'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6394' 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 Tech)	Date <u>2/24/2010</u>	

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE AFM DATE 3/15/2010

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 19 2010 6 NMOCD
PA

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

Hold C104
for Directional Survey
and "As Drilled" plat

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

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

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 7 Copies

Fee Lease - 3 Copies

FEB 24 2010

Bureau of Land Management

☐ AMENDED REPORT

Santa Fe Field Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30933	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 47N
⁷ OGRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY	⁹ Elevation 6394

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
L	17	30-N	5-W		1376	SOUTH	1148	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	17	30-N	5-W		1350	SOUTH	2370	WEST	RIO ARRIBA

¹² Dedicated Acres 320.00 6/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No
---	-------------------------------	----------------------------------	------------------------

w/2

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 		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 Ethel Tally Printed Name Staff Regulatory Tech Title and E-mail Address 9-23-09 Date
BASIS OF BEARING IS THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD83 AS DETERMINED BY GPS OBSERVATION AND NGS/OPUS SOLUTION.		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: 8/18/09 Signature and Seal of Professional Surveyor: Certificate Number: NM 11393

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-5 UNIT 47N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9145				AFE \$: 1,793,190.91	
Field Name: SAN JUAN		Rig: Aztec Rig 711		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: 36.809152	Longitude: -107.385162	X:	Y:	Section: 17		Range: 005W	
Footage X: 1148 FWL	Footage Y: 1376 FSL	Elevation: 6394	(FT)	Township: 030N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD:27 Directional							
Latitude: 36.809081	Longitude: -107.380988	X:	Y:	Section: 17		Range: 005W	
Footage X: 2370 FWL	Footage Y: 1350 FSL	Elevation:	(FT)	Township: 030N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2011		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6409 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	6209	☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.	
NACIMIENTO	1246	5163	☐				
OJO ALAMO	2448	3961	☐				
KIRTLAND	2593	3816	☐				
FRUITLAND	2707	3702	☐	155		Possible Gas	
PICTURED CLIFFS	3337	3072	☐	516			
LEWIS	3455	2954	☐				
Intermediate Casing	3555	2854	☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 860 cuft. Circulate cement to surface.	
HUERFANITO BENTONITE	4096	2313	☐				
CHACRA	4455	1954	☐				
UPPER CLIFF HOUSE	4992	1417	☐			Gas	
MASSIVE CLIFF HOUSE	5288	1121	☐	392		Gas	
MENEFEE	5325	1084	☐				
POINT LOOKOUT	5571	838	☐				
MANCOS	5957	452	☐				
UPPER GALLUP	6864	-455	☐				
GREENHORN	7607	-1198	☐				
GRANEROS	7657	-1248	☐				
TWO WELLS	7751	-1342	☐	3141		Gas	
PAGUATE	7755	-1346	☐				
UPPER CUBERO	7783	-1374	☐				

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 30-5 UNIT 47N

DEVELOPMENT

LOWER CUBERO	7829	-1420	☐	SJ 31-6 Unit 31E "Fill and got wet at TD (8085'). Could not get casing past 8040' "
ENCINAL	7898	-1489	☐	
Total Depth	7928	-1519	☐	

6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/ 595 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:

Reference Type	Well Name	Comments
Production	SAN JUAN 30-5 47	

Logging Program:

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

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

mud log ~100' above grhn to td. Perf 22' above td. Mud logger 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 #47N
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6409'0ft (Aztec Rig)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6409'0ft (Aztec Rig)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-5 #47N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
8,051.6	7,783.0	Upper Cubero		0.00		
8,196.6	7,928.0	TD		0.00		
5,556.6	5,288.0	Mass. Cliffhouse		0.00		
4,723.6	4,455.0	Chacra		0.00		
5,839.6	5,571.0	Point Lookout		0.00		
3,723.6	3,455.0	Lewis		0.00		
2,944.9	2,707.0	Fruitland		0.00		
2,816.1	2,593.0	Kirtland		0.00		
4,364.6	4,096.0	Huerfano Bentonite		0.00		
1,286.7	1,246.0	Nacimiento		0.00		
8,166.6	7,898.0	Encinal		0.00		
2,651.4	2,448.0	Ojo		0.00		
8,023.6	7,755.0	Paguate		0.00		
7,875.6	7,607.0	Greenhorn		0.00		
3,605.1	3,337.0	Pictured Cliffs		0.00		
6,225.6	5,957.0	Mancos		0.00		
5,593.6	5,325.0	Menefee		0.00		
8,019.6	7,751.0	Two Wells		0.00		
8,097.6	7,829.0	Lower Cubero		0.00		
7,132.6	6,864.0	Upper Gallup		0.00		
7,925.6	7,657.0	Graneros		0.00		
5,260.6	4,992.0	Upper Cliffhouse		0.00		

REFERENCE INFORMATION

RKB @ 6409.0ft (Aztec Rig)
Ground Elevation 6394.0
Reference Lat: 36° 48' 32.949 N
Reference Long: 107° 23' 6.584 W

Project: San Juan Basin - New Mexico Wells

Site: San Juan 30 Wells

Well: SJ 30-5 #47N

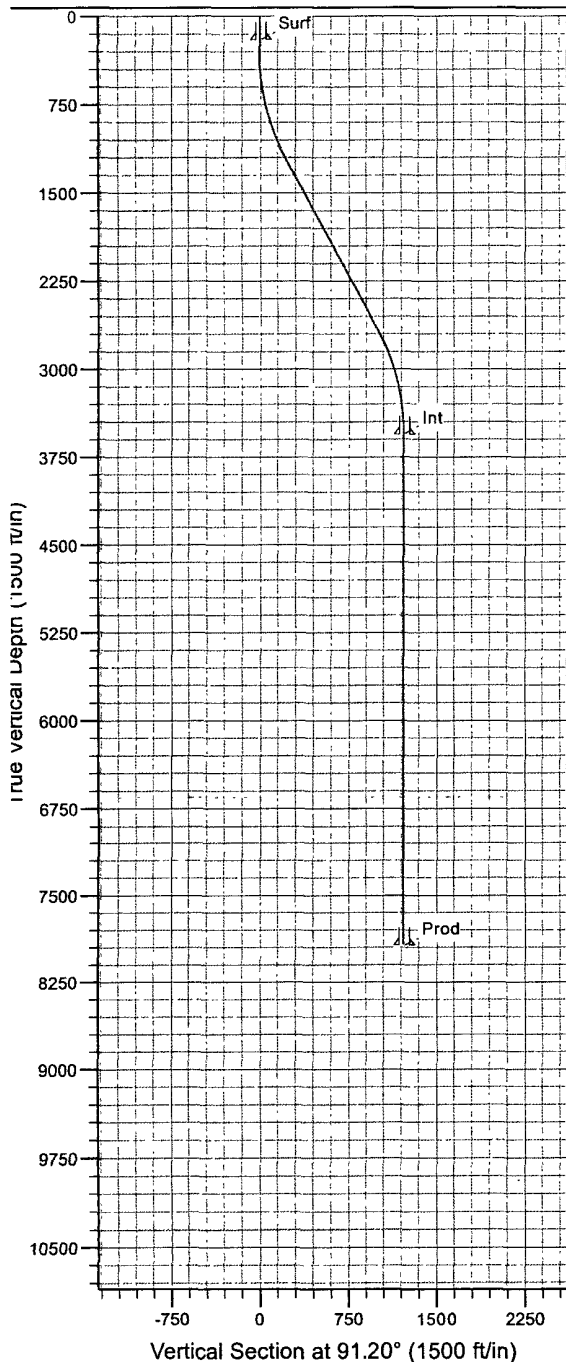
Wellbore: Principal Wellbore

Design: Plan #1

ConocoPhillips

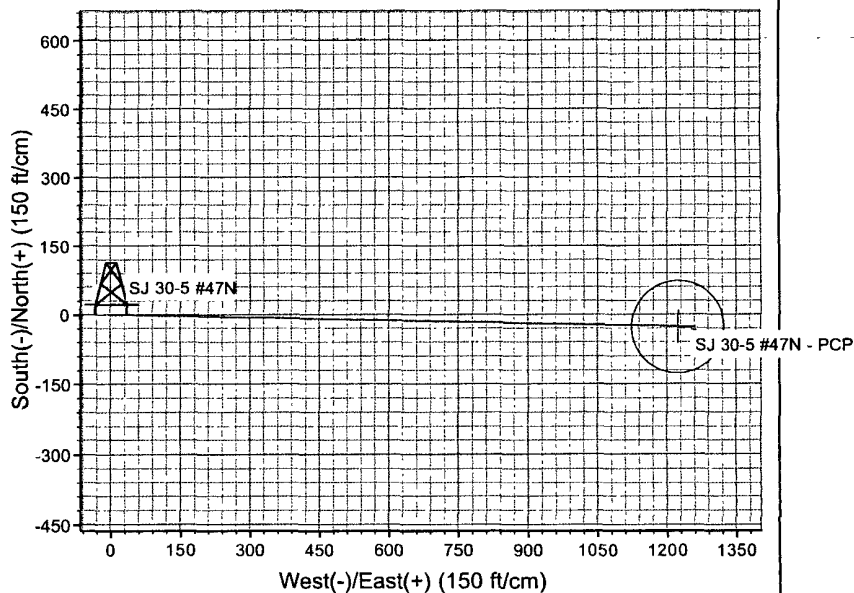
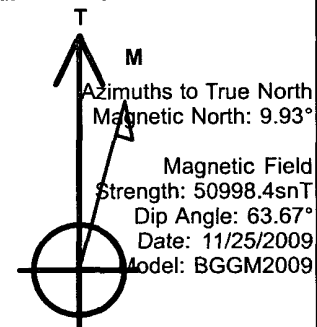
SECTION DETAILS

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	1262.3	28.27	91.20	1224.5	-4.8	227.7	3.00	91.20	227.8	
4	2881.3	28.27	91.20	2650.5	-20.8	994.3	0.00	0.00	994.6	
5	3823.6	0.00	0.00	3555.0	-25.6	1222.1	3.00	180.00	1222.3	SJ 30-5 #47N - ICP
6	8196.6	0.00	0.00	7928.0	-25.6	1222.1	0.00	0.00	1222.3	SJ 30-5 #47N - PCP



FORMATION TOP DETAILS

TVDP	MD	Formation
1246.0	1286.7	Nacimiento
2448.0	2651.4	Ojo
2593.0	2816.1	Kirtland
2707.0	2944.9	Fruitland
3337.0	3605.1	Pictured Cliffs
3455.0	3723.6	Lewis
4096.0	4364.6	Huerfano Bentonite
4455.0	4723.6	Chacra
4992.0	5260.6	Upper Cliffhouse
5288.0	5556.6	Mass. Cliffhouse
5325.0	5593.6	Menefee
5571.0	5839.6	Point Lookout
5957.0	6225.6	Mancos
6864.0	7132.6	Upper Gallup
7607.0	7875.6	Greenhorn
7657.0	7925.6	Graneros
7751.0	8019.6	Two Wells
7755.0	8023.6	Paguate
7783.0	8051.6	Upper Cubero
7829.0	8097.6	Lower Cubero
7898.0	8166.6	Encinal
7928.0	8196.6	TD



CONOCOPHILLIPS COMPANY

SAN JUAN 30-5 UNIT #47N

1376' FSL, 1148' FWL

SECTION 17, T-30-N, R-5-W, N.M.P.M.,

RIO ARriba COUNTY, NEW MEXICO

NAD 83 LAT.: 36.809159°N LONG.: 107.385764°W

ELEV.: 6394 NAVD88

NEW ACCESS 124.9'

FROM BLOOMFIELD, NEW MEXICO:

- GO 37.7 MI. ON HWY. 64, (MILE MARKER 102.3) TURN LEFT (NORTH) ON HWY. 527, AKA SIMMS MARINA ROAD.
- GO 8.0 MI. NORTH ON HWY. 527. TURN RIGHT ONTO ROSA ROAD.
- GO 6.4 MI. ALONG ROSA ROAD CROSSING LA JARA WASH. TURN RIGHT (EASTERLY) AT BLM / FOREST SERVICE WARNING SIGN.
- GO 3.3 MI. EAST, CROSSING LA FRAGUA WASH, STAYING ON MAIN ROAD. TURN LEFT (NORTH).
- GO 0.2 MI. NORTH. TURN RIGHT ONTO EXISTING LOCATION FOR SJ 30-5 UNIT #224. NEW WELL IS TWINNED HERE.