

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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MAY 27 2009

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Bureau of Land Management

1a. Type of Work DRILL	5. Lease Number Farmington Field Office NMSF-078840	
1b. Type of Well GAS	6. If Indian, All. or Tribe	
2. Operator ConocoPhillips Company	7. Unit Agreement Name NMNM-78413C-DK NMNM-78413A-MV NMNM-78413D-CH	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name San Juan 28-7 Unit	
4. Location of Well Surface: Unit E(SWNW), 1800' FNL & 752' FWL Bottomhole: Unit D(NWNW), 710' FNL & 750' FWL Surface: Latitude: 36.56086° N (NAD 83) Lot 2 Longitude: 107.62295° W Bottomhole: Latitude: 36.56385° N (NAD 83) Longitude: 107.62296° W	9. Well Number 110N 10. Field, Pool, Wildcat Basin DK/Blanco MV/Otera CH 11. Sec., Twn, Rge, Mer. (NMPM) E Sec. 19, T27N, R7W API # 30-039- 30769	
14. Distance in Miles from Nearest Town 38 miles/Blanco	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 710'	17. Acres Assigned to Well MV/DK 321.15 (W/2) CH 160.35 (NW/4)	
16. Acres in Lease 1,281.510	18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 71' from San Juan 28-7 Unit 110M (PC)	
19. Proposed Depth 7513'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6596' GR	22. Approx. Date Work will Start 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	
23. Proposed Casing and Cementing Program See Operations Plan attached	24. Authorized by: <u><i>Crystal Tafoya</i></u> Crystal Tafoya (Regulatory Technician)	
		Date <u>5/27/2009</u>

PERMIT NO.	APPROVAL DATE
APPROVED BY <u><i>D. Montoya</i></u>	TITLE <u>AFM</u> DATE <u>6/22/2010</u>
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

Hold C104
for Directional Survey
and "As Drilled" plat

NMOCD

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

PC

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, NM 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, NM 87505

Bureau of Land Management

Farmington Field Office

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30769	² Pool Code 72319/71599/82329	³ Pool Name BLANCO MESAVERDE/BASIN DAKOTA/OTERO CHACRA
⁴ Property Code 31739	⁵ Property Name SAN JUAN 28-7 UNIT	⁶ Well Number 110 N
⁷ OGRD No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY	⁹ Elevation 6596'

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
E	19	27N	7W	2	1800'	NORTH	752'	WEST	RIO ARRIBA

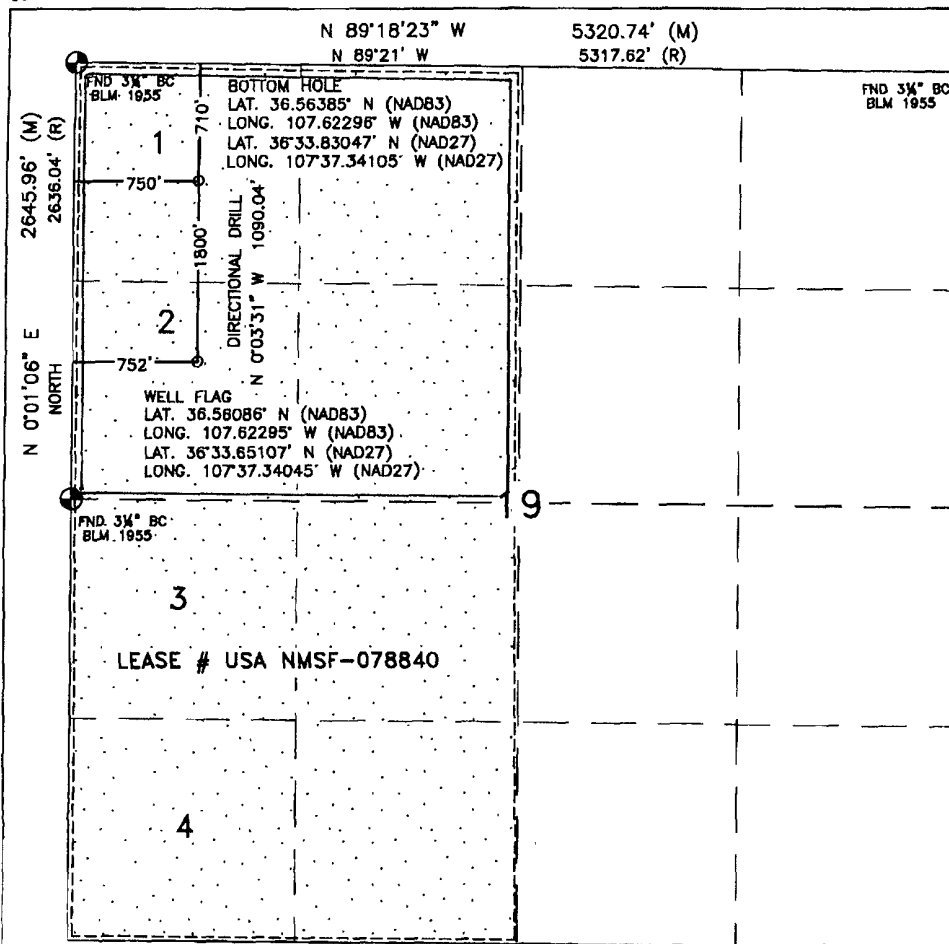
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	19	27N	7W	1	710'	NORTH	750'	WEST	RIO ARRIBA

¹² Dedicated Acres MV/DK-321.15 ACRES (W/2) CH-180.35 ACRES (NW/4)	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

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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 or a compulsory pooling order heretofore entered by the division.

Crystal Tafoya 1/29/09
Signature Date

Crystal Tafoya 1-29-09
Printed Name

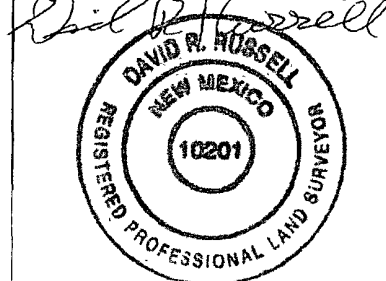
¹⁸ SURVEYOR CERTIFICATION

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.

JANUARY 19, 2009

Date of Survey

Signature and Seal of Professional Surveyor:



DAVID RUSSELL

Certificate Number 10201

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-7 UNIT 110N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8467				AFE \$: 1,624,999.43	
Field Name: hBR_SAN JUAN		Rig: H&P Rig 283		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						
RCO004	CHACRA(RCO004)						
RON	BLANCO MESAVERDE (PRORATED GAS)						
FRR	BASIN DAKOTA (PRORATED GAS)						
Location: Surface Datum Code: NAD 27							
Latitude: 36.560851	Longitude: -107.622341	X:	Y:	Section: 19		Range: 007W	
Footage X: 752 FWL	Footage Y: 1800 FNL	Elevation: 6596	(FT)	Township: 027N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27							
Latitude: 36.563841	Longitude: -107.622351	X:	Y:	Section: 19		Range: 007W	
Footage X: 750 FWL	Footage Y: 710 FNL	Elevation:	(FT)	Township: 27N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2010		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6611 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	6411	☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 159 cuft. Circulate cement to surface.	
OJO ALAMO	2059	4552	☐				
KIRTLAND	2195	4416	☐				
FRUITLAND	2468	4143	☐			Possible Gas	
PICTURED CLIFFS	2896	3715	☐				
LEWIS	3025	3586	☐				
HUERFANITO BENTONITE	3261	3350	☐				
CHACRA	3843	2768	☐			Est. Top Perf - 3844 (2766)	
UPPER CLIFF HOUSE	4518	2093	☐			Gas	
MASSIVE CLIFF HOUSE	4586	2025	☐	358		Gas	
MENEFEE	4612	1999	☐				
Intermediate Casing	4762	1849	☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 1117 cuft. Circulate cement to surface.	
POINT LOOKOUT	5209	1402	☐				
MANCOS	5535	1076	☐				
UPPER GALLUP	6371	240	☐				
GREENHORN	7155	-544	☐				
GRANEROS	7217	-606	☐				
TWO WELLS	7275	-664	☐	3070		Gas	
PAGUATE	7327	-716	☐				
UPPER CUBERO	7383	-772	☐				
LOWER CUBERO	7403	-792	☐				

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-7 UNIT 110N

DEVELOPMENT

ENCINAL	7473	-862	☐	TD - 40' below T/ENCN; Est. Btm Perf - 7492 (-882) based on offset wells
Total Depth	7513	-902	☐	6-1/4" hole, 4-1/2" 11.6 ppf, J-55/ L-80, LTC casing. Cement w/ 379 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:		
Reference Type	Well Name	Comments
Production	SJ 28-7 Unit 109	27N 7W 18 SE SW
Production	SJ 28-7 Unit 110M	27N 7W 19 NE SW NW
Production	SJ 28-7 Unit 110	27N 7W 19 SW NE SW

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 SJ 28-7 #110N
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6611.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6611.0ft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	True
Well:	SJ 28-7 #110N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,143.9	2,059.0	Ojo		0.00		
2,291.9	2,195.0	Kirtland		0.00		
2,588.8	2,468.0	Fruitland		0.00		
3,054.3	2,896.0	Pictured Cliffs		0.00		
3,194.6	3,025.0	Lewis		0.00		
3,447.9	3,261.0	Huerfano Bentonite		0.00		
4,039.3	3,843.0	Chacra		0.00		
4,714.3	4,518.0	Upper Cliffhouse		0.00		
4,782.3	4,586.0	Mass Cliffhouse		0.00		
4,808.3	4,612.0	Menefee		0.00		
5,405.3	5,209.0	Point Lookout		0.00		
5,832.3	5,636.0	Mancos		0.00		
6,567.3	6,371.0	Upper Gallup		0.00		
7,351.3	7,155.0	Greenhorn		0.00		
7,413.3	7,217.0	Graneros		0.00		
7,471.3	7,275.0	Two Wells		0.00		
7,523.3	7,327.0	Paguate		0.00		
7,579.3	7,383.0	Upper Cubero		0.00		
7,599.3	7,403.0	Lower Cubero		0.00		
7,669.3	7,473.0	Encinal		0.00		

CONOCOPHILLIPS COMPANY

SAN JUAN 28-7 UNIT #110 N
1800' FNL & 752' FWL
LOCATED IN THE SW/4 NW/4 OF SECTION 19,
T27N, R7W, N.M.P.M.,
RIO ARriba COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM HWY 64 & CR 4450, GO SOUTHERLY ON CR 4450 FOR 25 MILES TO OLD SCHOOL HOUSE.
- 2) FROM "T" INTERSECTION, GO NORTHERLY UP ICE CANYON FOR 3.3 MILES.
- 3) TURN LEFT & GO 2.85 MILES TO "Y" INTERSECTION.
- 4) TURN LEFT (GO AROUND CHEVERON COMP. SITE) AND GO 5.95 MILES.
- 5) STAY LEFT & GO 0.4 MILES.
- 6) TURN LEFT & GO 0.3 MILES TO "Y" INTERSECTION.
- 7) STAY LEFT & GO 0.15 MILES.
- 8) TURN RIGHT ONTO WELL PAD.

WELL FLAG LOCATED AT LAT. 36 56086° N, LONG. 107 62295° W (NAD 83).

JOB No.: COPC281
DATE: 01/22/09



Russell Surveying
1409 W. Aztec Blvd. #2
Aztec, New Mexico 87410
(505) 334-8637