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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FEB 24 2010

Bureau of Land Management
Farmington Field Office

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number SF-078498 Unit Reporting Number
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator ConocoPhillips Company	7. Unit Agreement Name PC-NMNM-78413B FC-NMNM-78413E San Juan 28-7 Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name RCVD MAR 9 '10 OIL CONS. DIV. DIST. 3
4. Location of Well Surf: Unit C (NENW), 1292' FNL & 1776' FWL Surf: Latitude: 36.6359728° N (NAD83) Longitude: 107.5638006° W	10. Field, Pool, Wildcat Basin FC / South Blanco PC 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 27, T28N, R7W API # 30-039-30932
14. Distance in Miles from Nearest Town 24 miles / Blanco	12. County Rio Arriba
	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1292'	
16. Acres in Lease 1,988.00	17. Acres Assigned to Well 320.00 W/2 - FC/PC-160NN/4
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 72' from San Juan 28-7 Unit 135E	
19. Proposed Depth 3424'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6582' 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: Crystal Tafoya Crystal Tafoya (Regulatory Tech)	Date: 2/24/2010

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 2

Bond Numbers ES-0048 and ES-0085

MAR 11 2010

NMOCDO

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

ACTION DOES NOT RELIEVE THE LESSEE AND
OIL LEASER FROM OBTAINING ANY OTHER
AUTHORIZATION REQUIRED FOR OPERATIONS
ON FEDERAL AND INDIAN LANDS

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

Form C-102

Revised October 12, 2005

OIL CONSERVATION DIVISION

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

RECEIVED

FEB 24 2010

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

Bureau of Land Management

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039- 30932	² Pool Code 71629 / 72439	³ Pool Name SOUTH BLANCO BASIN FRUITLAND COAL / PICTURED CLIFFS
⁴ Property Code 31739	⁵ Property Name SAN JUAN 28-7 UNIT	⁶ Well Number 409S
⁷ GRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY	⁹ Elevation 6582

¹⁰ Surface Location

UL or lot no. C	Section 27	Township 28 N	Range 7 W	Lot Idn	Feet from the 1292	North/South line NORTH	Feet from the 1776	East/West line WEST	County RIO ARRIBA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. C	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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¹² Dedicated Acres FC 320 (W/2) PC 160 (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

¹⁶ N 89°35'33" E 2620.86' 1776' LAT: 36.6359728° N LONG: 107.5638006° W NAD 83 LAT: 36°38.15790' N LONG: 107°33.79160' W NAD 27 SECTION 27 USA SF-078498 WEST (R)	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>Crystal Tafuya</i> 10/22/09 Signature Date Crystal Tafuya 10-22-09 Printed Name
2627.61' S 89°57' W (R) 2641.98' (R) 5280' (R) USA SF-078496 NOTES: 1. BEARINGS & DISTANCES SHOWN ARE REFERENCED TO THE NEW MEXICO COORDINATE SYSTEM, WEST ZONE, NAD 83. 2. NW/4-160 ACRES FOR PC SPACING/DENSITY; W/2-320 ACRES FOR FEDERAL UNIT AGREEMENT DRILLBLOCK SPACING. 5280' (R)	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. 8/18/09 Date of Survey Signature and Seal of Professional Surveyor MARSHALL W. LINDEEN NEW MEXICO LICENSED PROFESSIONAL SURVEYOR 17078 Certificate Number

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 28-7 UNIT 409S

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9115		AFE \$: 1,060,631.12	
Field Name: SAN JUAN		Rig: XXX 2011 Holding Rig #1		State: NM	County: RIO ARRIBA
Geologist:		Phone:		Geophysicist:	
Geoscientist:		Phone:		Prod. Engineer:	
Res. Engineer:		Phone:		Proj. Field Lead:	

Primary Objective (Zones):

Zone	Zone Name
JCV	BASIN FRUITLAND COAL (GAS)
UPL	BLANCO PICTURED CLIFFS

Location: Surface Datum Code: NAD 27 Straight Hole

Latitude: 36.635965	Longitude: -107.563193	X:	Y:	Section: 27	Range: 007W
Footage X: 1776 FWL	Footage Y: 1292 FNL	Elevation: 6582	(FT)	Township: 028N	

Tolerance:

Location Type: Year Round Start Date (Est.): 1/1/2011 Completion Date: Date In Operation:

Formation Data: Assume KB = 6593 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	120	6473	<input type="checkbox"/>			8-3/4 hole. 7" 20 ppf, J-55 STC csg. Cement with 50 cuft. Circulate cement to surface.
NACIMIENTO	921	5672	<input type="checkbox"/>			
OJO ALAMO	2401	4192	<input type="checkbox"/>			
KIRTLAND	2508	4085	<input type="checkbox"/>			
FRUITLAND	2846	3747	<input type="checkbox"/>	235		Gas
FRUITLAND COAL	2892	3701	<input type="checkbox"/>			
PICTURED CLIFFS	3224	3369	<input type="checkbox"/>			Gas; TD - 200' below T/PCCF
Total Depth	3424	3169	<input type="checkbox"/>			6-1/4" hole. 4-1/2" 10.5 ppf, J-55, STC casing. Cement with 458 cuft. Circulate cement to surface.

Reference Wells:

Reference Type	Well Name	Comments
Production	SJ 28-7 135E	28N 7W 27 SW NE NW
Production	SJ 28-7 409	28N 7W 27 SW NE SW
Production	SJ 28-7 135M	28N 7W 27 SW NW NW

Logging Program:

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

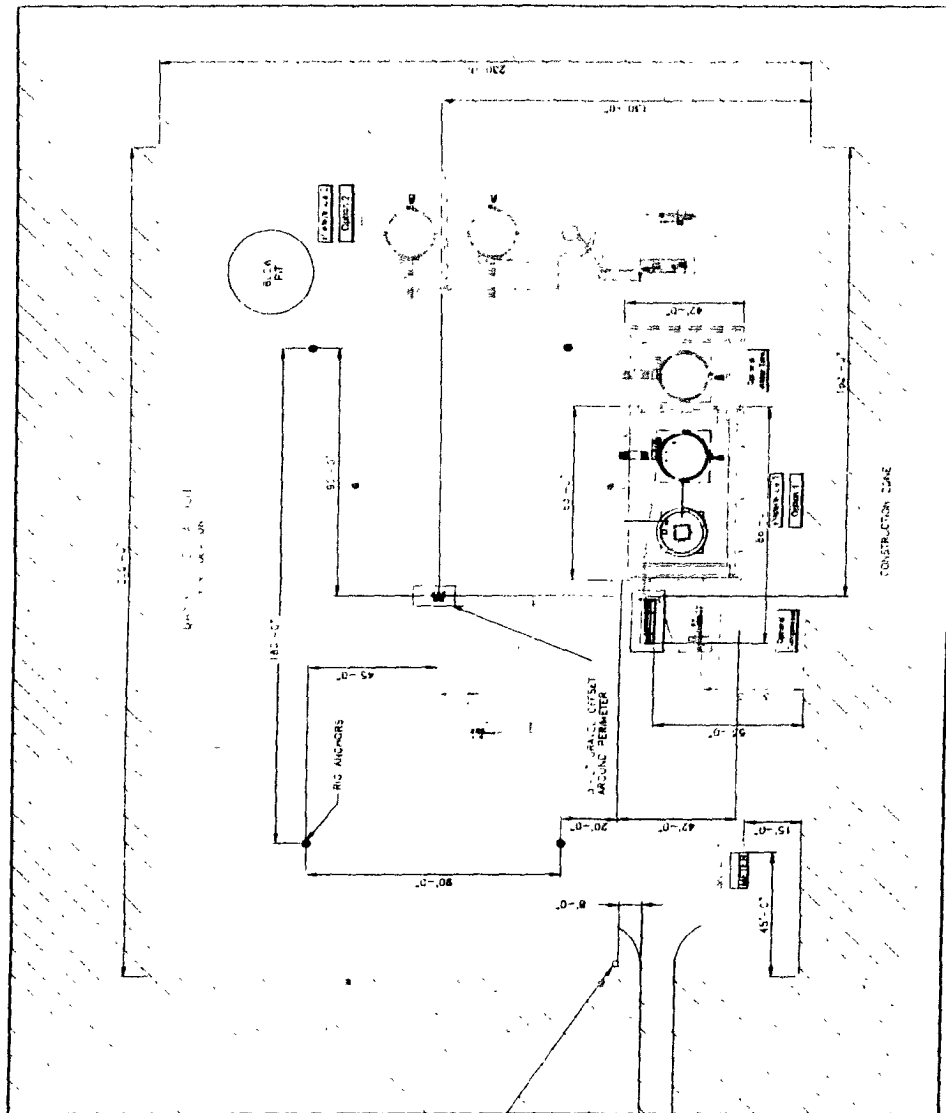
TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other

Cased Hole GR / CBL

Additional Information:

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



FLOW LINE 1
 SALES LINE
 RPT LINE
 OIL LINE

ALL DIMENSIONS ARE IN FEET AND INCHES
 ALL DIMENSIONS ARE TO BE BUILT A MIN. OF 1/8" TOL.

ENGINEERING NUMBER										REFERENCE CHANGES										CONOCOPHILLIPS										SAN JUAN BUSINESS UNIT																			
REV.										NO. OF REV.										DATE										FACILITY DIAGRAM - SITE LAYOUT										DATE									
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CONOCOPHILLIPS COMPANY
SAN JUAN 28-7 UNIT 409S
1292' FNL & 1776' FWL
LATITUDE: 36.6359728° N
LONGITUDE: 107.5638006° W
NAD 83
SECTION 27, T-28-N, R-7-W, N.M.P.M.
RIO ARriba COUNTY, NEW MEXICO

FROM THE INTERSECTION OF C.R. 4599 AND U.S. HIGHWAY 64
IN BLANCO, NEW MEXICO.

TRAVEL EASTERLY 8.2 MILES ON U.S. HIGHWAY 64.

TURN RIGHT OFF U.S. HIGHWAY 64 AND TRAVEL SOUTHERLY 0.6 MILE.

TURN LEFT AT FORK IN ROAD AND TRAVEL SOUTHEASTERLY 1.0 MILE.

TURN LEFT AT A FOUR WAY INTERSECTION AND TRAVEL NORTHERLY 0.2 MILE.

TURN RIGHT AND TRAVEL ON RIDGE ROAD EASTERLY 10.3 MILES, PASSING OVER
MANZANERES MESA AND CONTINUING TOWARDS DELGADITA MESA.

TURN LEFT AT A TEE INTERSECTION (EAST OF DELGADITA CANYON)
AND TRAVEL EASTERLY 0.3 MILE.

TURN RIGHT AT NEXT TEE INTERSECTION AND TRAVEL SOUTHERLY 1.6 MILES
ON DELGADITA MESA.

TURN RIGHT AT A TEE INTERSECTION (AFTER PASSING SAN JUAN 28-7 UNIT 158E
WELL LOCATION) AND TRAVEL NORTHWESTERLY 0.5 MILE, TURNING LEFT AT A
FORK IN ROAD AND CONTINUING FORWARD PASSING
TWO ROAD TEE INTERSECTIONS.

TURN LEFT AT THE NEXT FORK IN ROAD AND TRAVEL NORTHWESTERLY, THEN
SOUTHERLY 1.0 MILE, PASSING THROUGH EXISTING SAN JUAN 28-7 UNIT 258M
WELL LOCATION AND HEADING TOWARDS SALADO CANYON.

TURN RIGHT AT A FORK IN ROAD AND TRAVEL
SOUTHWESTERLY 0.9 MILE TO EXISTING SAN JUAN 28-7 UNIT 135E WELL
LOCATION & PROPOSED SAN JUAN 28-7 UNIT 409S WELL LOCATION.