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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FEB 28 2011

Farmington Field Office

Bureau of Land Management

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

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 USA SF-079185 Unit Reporting Number
1b. Type of Well GAS			6. If Indian, All. or Tribe
2. Operator ConocoPhillips Company			7. Unit Agreement Name RCVD APR 29 '11 OIL CONS. DIV. DIST. 3
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700			8. Farm or Lease Name Federal 9. Well Number 13N
4. Location of Well Surf: Unit M(SWSW), 711' FSL & 777' FWL Surf: Latitude: 36.466899° N (NAD83) Longitude: 107.479714° W			10. Field, Pool, Wildcat Basin DK/Blanco MV 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 21, T26N, R6W API # 30-039-31033
14. Distance in Miles from Nearest Town 46.4 Miles from Bloomfield, NM	12. County Rio Arriba	13. State NM	
15. Distance from Proposed Location to Nearest Property or Lease Line 711'			
16. Acres in Lease 320 Acres	17. Acres Assigned to Well 320 Acres S/2		
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 71.9' from COPC Scott Federal #5 (Chacra)			
19. Proposed Depth 7440'	20. Rotary or Cable Tools Rotary		
21. Elevations (DF, FT, GR, Etc.) 6688' GL	22. Approx. Date Work will Start		
23. Proposed Casing and Cementing Program See Operations Plan attached			
24. Authorized by: Brandie Blakley Brandie Blakley (Staff Regulatory Technician)	2-27-11 Date		

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE AFM DATE 4/25/11

Archaeological Report attached

A gas recovery unit may or may not be used on this location.

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

MAY 17 2011 AV NMOC

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

A COMPLETE C-144 MUST BE SUBMITTED TO AND
APPROVED BY THE NMOC FOR: A PIT, CLOSED
LOOP SYSTEM, BELOW GRADE TANK, OR
PROPOSED ALTERNATIVE METHOD, PURSUANT
TO NMOC PART 19.15.17, PRIOR TO THE USE OR
CONSTRUCTION OF THE ABOVE APPLICATIONS.

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 28 2011

☐ AMENDED REPORT

Farmington Field Office
WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-31033		² Pool Code 71599/72319		³ Pool Name BASIN DAKOTA / BLANCO MESAVERDE	
⁴ Property Code 6999 31535		⁵ Property Name FEDERAL			⁶ Well Number 13N
⁷ OGRID No. 217817		⁸ Operator Name CONOCOPHILLIPS COMPANY			⁹ Elevation 6688

¹⁰ SURFACE LOCATION

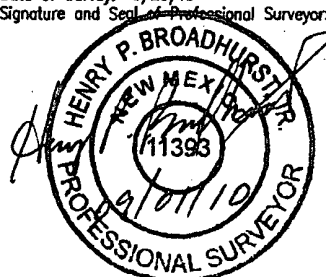
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	21	26-N	6-W		711	SOUTH	777	WEST	RIO ARRIBA

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
M									

¹² Dedicated Acres 320.0 S/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.		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>Brandie Blakley</i> Signature Brandie Blakley Printed Name Staff Regulatory Technician Title and E-mail Address 9-12-10 Date	
BLM 1957 2705.7' (R) 2703.4' (W) N 0°13' W N 0°22' 31" W 777'	WELL FLAG NAD 83 LAT: 36.466899° N LONG: 107.479714° W NAD 27 LAT: 36°28.013332' N LONG: 107°28.746643' W S/2 DEDICATED ACREAGE USA SF-079185	BLM 1956 USA NM-03553 SECTION 21, T-26-N, R-6-W	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: 8/26/10 Signature and Seal of Professional Surveyor:  Certificate Number: NM 11393

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

FEDERAL 13N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.0061				AFE \$: 0.00	
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						
RON	BLANCO MESAVERDE (PRORATED GAS)						
FRR	BASIN DAKOTA (PRORATED GAS)						
Location: Surface Datum Code: NAD 27 Straight Hole							
Latitude: 36.466889		Longitude: -107.479110		X:	Y:	Section: 21	Range: 006W
Footage X: 777 FWL		Footage Y: 711 FSL		Elevation: 6688 (FT)	Township: 026N		
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2012		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6703 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	6503		<input type="checkbox"/>			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
NACIMIENTO	965	5738		<input type="checkbox"/>			
OJO ALAMO	2283	4420		<input type="checkbox"/>			
KIRTLAND	2445	4258		<input type="checkbox"/>			
FRUITLAND	2551	4152		<input type="checkbox"/>			Possible Gas
PICTURED CLIFFS	2961	3742		<input type="checkbox"/>			
LEWIS	3051	3652		<input type="checkbox"/>			
HUERFANITO BENTONITE	3375	3328		<input type="checkbox"/>			
CHACRA	3811	2892		<input type="checkbox"/>			
UPPER CLIFF HOUSE	4548	2155		<input type="checkbox"/>			Gas; Cliffhouse is wet
MASSIVE CLIFF HOUSE	4613	2090		<input type="checkbox"/>	487		Gas
MENEFEE	4651	2052		<input type="checkbox"/>			Est. Top Perf - 4851 (1852)
Intermediate Casing	4801	1902		<input type="checkbox"/>		134	8 3/4" Hole. 7", 20/23 ppf, J-55, STC/LTC Casing. Cement with 1082 cuft. Circulate cement to surface.
POINT LOOKOUT	5185	1518		<input type="checkbox"/>			
MANCOS	5520	1183		<input type="checkbox"/>			
UPPER GALLUP	6261	442		<input type="checkbox"/>			
GREENHORN	7095	-392		<input type="checkbox"/>			
GRANEROS	7151	-448		<input type="checkbox"/>			
TWO WELLS	7207	-504		<input type="checkbox"/>	2580		Gas
PAGUATE	7255	-552		<input type="checkbox"/>			
UPPER CUBERO	7309	-606		<input type="checkbox"/>			
LOWER CUBERO	7339	-636		<input type="checkbox"/>			
OAK CANYON	7381	-678		<input type="checkbox"/>			Est. Btm Perf - 7401 (- 698) based on offset wells
ENCINAL	7410	-707		<input type="checkbox"/>			TD - 30' below T/ENCN

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

FEDERAL 13N

DEVELOPMENT

Total Depth 7440 -737 ☐ 184 6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/ 364 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:		
Reference Type	Well Name	Comments
Production	Federal 13R	26N 6W 21 SE
Production	Vaughn 30E	26N 6W 28 SE NW NW
Production	Vaughn 13	26N 6W 21 SW NE SW
Production	Vaugh 31	26N 6W 29 SE NW NE

Logging Program:

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

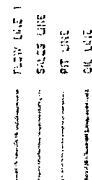
TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other

Cased Hole GR / CBL

Mudlog from 100' above top of GLLP to TD - mudlogger will call TD.

Evaluation of gas show in the Encinal to determine if bottom perf needs to be adjusted.

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



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LIBRARY

$$\begin{aligned} & \frac{1}{2} \left(\frac{1}{2} \right) \\ & \frac{1}{2} \left(\frac{1}{2} \right) \\ & \frac{1}{2} \left(\frac{1}{2} \right) \\ & \frac{1}{2} \left(\frac{1}{2} \right) \\ & \frac{1}{2} \left(\frac{1}{2} \right) \end{aligned}$$
[illegible]

CONOCOPHILLIPS COMPANY
FEDERAL 13N
711' FSL, 777' FWL
SECTION 21, T-26-N, R-6-W, N.M.P.M.,
RIO ARRIBA COUNTY, NEW MEXICO
NAD 83 LAT.: 36.466899°N LONG.: 107.479714°W
ELEV.: 6688 NAVD88
NO NEW ACCESS

FROM BLOOMFIELD, NEW MEXICO:

- GO 1.0 MILE SOUTH ON HWY. 550 AND TURN LEFT (EAST) ON C.R. 4990.
- GO 15.0 MILES EAST ON C.R. 4990 TO THE INTERSECTION OF C.R. 4450 SOUTH OF "5 MILE BRIDGE." STAY ON THE MAIN ROAD AND CONTINUE ON C.R. 4450.
- GO 3.1 MILES SOUTHEAST ON C.R. 4450 TO C.R. 7007 INTERSECTION. STAY STRAIGHT AND CONTINUE ON C.R. 4450.
- GO 11.8 MILES SOUTHEAST FROM C.R. 7007 INTERSECTION STAYING ON C.R. 4450 TRAVELING ALONG THE SOUTHERN SIDE OF LARGO CANYON. ENTER RIO ARRIBA COUNTY (SEE SIGN).
- GO 6.6 MILES FROM COUNTY LINE CONTINUING SOUTHEAST ALONG THE SOUTHERN SIDE OF LARGO CANYON. NOW ON RIO ARRIBA C.R. 379, CONTINUE TO "THE OLD LARGO SCHOOL HOUSE" (NOW BED AND BREAKFAST). STAY LEFT AND CROSS BRIDGE OVER LARGO WASH NOW ON STATE RD. 403.
- GO 3.6 MILES NORTHEAST UP THRU "ICE CANYON" AND TURN RIGHT (EAST) 0.1 MILES PAST THE CORRALS.
- GO 1.7 MILES SOUTHEAST AND STAY RIGHT (SOUTH) AT INTERSECTION.
- GO 0.7 MILES SOUTH (TOWARDS "DOGIE CANYON"). TURN LEFT.
- GO 0.1 MILES AND STAY LEFT.
- GO 0.5 MILES AND TURN RIGHT.
- GO 1.0 MILES AND TURN RIGHT, CROSS CATTLEGUARD AT FENCE LINE.
- GO 0.7 MILES AND STAY LEFT.
- GO 0.4 MILES TO "Y" AND STAY LEFT.
- GO 0.2 TO EXISTING SCOTT FEDERAL S WELL. NEW WELL STAKED AS TWIN HERE.