

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

DEC 10 2008

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-078416 Unit Reporting Number	
1b. Type of Well GAS	6. If Indian, All. or Tribe	
2. Operator ConocoPhillips	7. Unit Agreement Name 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 Hardie  9. Well Number #1N	
4. Location of Well Unit L (NWSW), 2124' FSL & 999' FWL,  Latitude 36.69545 N Longitude 107.65159 W	10. Field, Pool, Wildcat Basin DK/Blanco MV  11. Sec., Twn, Rge, Mer. (NMPM) L Sec. 26, T29N, R8W  API # 30-045- 34878	
14. Distance in Miles from Nearest Town 12 miles/Blanco	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 999'	17. Acres Assigned to Well 320.0 (W/2)	
16. Acres in Lease 480.000	20. Rotary or Cable Tools Rotary	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 312' from Hardie A #211S	22. Approx. Date Work will Start	
19. Proposed Depth 7759'	21. Elevations (DF, FT, GR, Etc.) 6663' GR	
23. Proposed Casing and Cementing Program See Operations Plan attached	24. Authorized by: <u>Jamie Goodwin</u> Jamie Goodwin (Regulatory Technician)	
		Date <u>12/9/08</u>

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVED BY [Signature] TITLE ATM DATE 1/6/09

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 any false statement or representation to any Federal 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 3165.8 and appeal pursuant to 43 CFR 3165.4

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

JAN 14 2009

NMOCD

[Signature]

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

NOTIFY AZTEC OCD 24 HRS.  
PRIOR TO CASING & CEMENT

**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

## OIL CONSERVATION DIVISION

1220 South St. Francis Dr.  
Santa Fe, NM 87505

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

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045- 34878	*Pool Code 71599 / 72319	*Pool Name BASIN DAKOTA/BLANCO MESAVERDE	DIST 3
*Property Code 31728	*Property Name HARDIE	*Well Number 1 N	
*OGRID No. 217817	*Operator Name CONOCOPHILLIPS COMPANY	*Elevation 6663'	

<sup>10</sup> 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	26	29N	8W		2124'	SOUTH	999'	WEST	SAN JUAN

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no. L	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<sup>13</sup> Dedicated Acres 320.0 Acres - (W/2)			<sup>14</sup> Joint or Infill		<sup>15</sup> Consolidation Code		<sup>16</sup> Order No.		

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.

Signature [Signature] Date 1/07/09

James Gardenhire  
Printed Name

## 18 SURVEYOR CERTIFICATION

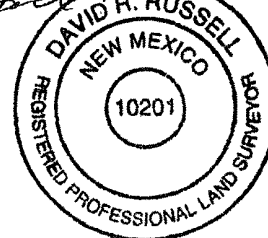
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

JULY 11, 2008

Date of Survey

Signature and Seal of Professional Surveyor:

W. A. Russell



DAVID RUSSELL

Certificate Number 10201

**COMPANY**  
**Charge Code**  
**WELL NAME**  
**DUAL WELL**  
**TRIPLE WELL**

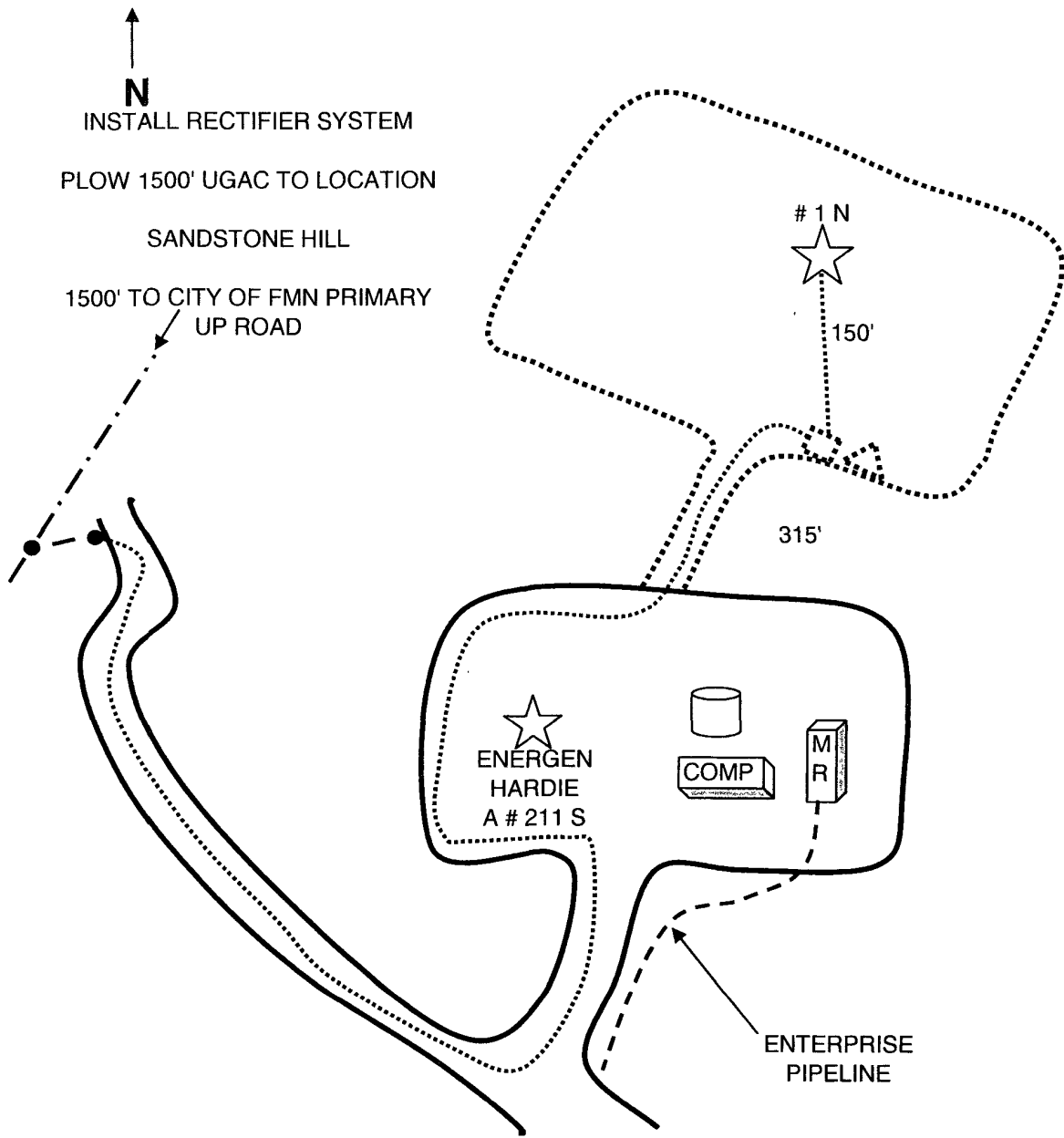
BURLINGTON RESOURCES		
WAN.RFE.PD08.S5		
HARDIE # 1 N	DATE	7/28/2008
WELL NAME		
WELL NAME		















COORDINATES	SEC	TNSHP	RANGE	LATITUDE	LONGITUDE
	L 26	29 N	8 W	36.69545 N	107.65159 W
COUNTY	SAN JUAN				

	SIZE	NEEDED	EXISTING	1 PHASE	3 PHASE
<u>RECTIFIER</u>	30/12	X			
<u>SOLAR</u>					
<u>GROUND BED</u>		X			
<u>240 V METER POLE</u>					
<u>480 V METER POLE</u>					
<u>D C CABLES</u>	# 8	200'			
<u>A C CABLES</u>	# 8	1700'			
<u>PRIMARY POWER</u>				CITY OF FMN	
<u>DISTANCE TO POWER</u>				1500'	
<u>UNDERGROUND</u>					
<u>PUMPJACK</u>					
<u>WATER PUMP</u>					

COMMENTS	INSTALL RECTIFIER SYSTEM
	PLOW 1500' UGAC TO LOCATION
	SANDSTONE HILL
	1500' TO CITY OF FMN PRIMARY UP ROAD

<b>WELL NAME</b>	<b>HARDIE # 1 N</b>
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TANK 	SEP OR DEHY 	SOLAR 	METER POLE 	PUMP JACK 	GND/BED EXISTING CABLE 
RECT 	PIT 	WELL 	proposed solar/gb 	PROPOSED CABLE 	POWER LINE 
			FOREIGN PL 	CONOCO PL 	

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HARDIE 1N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8270		AFE \$:	
Field Name: hBR_SAN JUAN		Rig: Aztec Rig 777		State: NM	County: SAN JUAN
Geologist:		Phone:		Geophysicist:	
Geoscientist:		Phone:		Prod. Engineer:	
Res. Engineer: McKee, Cory J		Phone: +1 505-326-9826		Proj. Field Lead:	
<b>Primary Objective (Zones):</b>					
Zone	Zone Name				
FRR	BASIN DAKOTA (PRORATED GAS)				
RON	BLANCO MESAVERDE (PRORATED GAS)				
<b>Location:</b> Datum Code: NAD 27					
Latitude: 36.695443	Longitude: -107.650979	X:	Y:	Section: 26	Range: 008W
Footage X: 999 FWL		Footage Y: 2124 FSL		Elevation: 6663 (FT)	Township: 029N
Tolerance:					
Location Type: Year Round		Start Date (Est.): 1/1/2009		Completion Date:	Date In Operation:
Formation Data: Assume KB = 6675 Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT
Surface Casing	200	6475	<input type="checkbox"/>		
OJO ALAMO	2282	4393	<input type="checkbox"/>		
KIRTLAND	2427	4248	<input type="checkbox"/>		
FRUITLAND	2854	3821	<input type="checkbox"/>		Possible Gas
PICTURED CLIFFS	3287	3388	<input type="checkbox"/>		
LEWIS	3442	3233	<input type="checkbox"/>		
Intermediate Casing	3542	3133	<input type="checkbox"/>		
CHACRA	4225	2450	<input type="checkbox"/>		
MASSIVE CLIFF HOUSE	4868	1807	<input type="checkbox"/>	368	Gas
MENEFEE	5015	1660	<input type="checkbox"/>		
POINT LOOKOUT	5469	1206	<input type="checkbox"/>		
MANCOS	5919	756	<input type="checkbox"/>		
UPPER GALLUP	6679	-4	<input type="checkbox"/>		
GREENHORN	7416	-741	<input type="checkbox"/>		
GRANEROS	7473	-798	<input type="checkbox"/>		
TWO WELLS	7499	-824	<input type="checkbox"/>	900	Gas
UPPER CUBERO	7635	-960	<input type="checkbox"/>		
LOWER CUBERO	7653	-978	<input type="checkbox"/>		
ENCINAL	7719	-1044	<input type="checkbox"/>		
Total Depth	7759	-1084	<input type="checkbox"/>		
12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 144 cuft. Circulate cement to surface.					
8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Cement with 798 cuft. Circulate cement to surface.					
6-1/4" hole, 4-1/2" 10.5/11.6 ppf, J-55, STC/LTC casing. Cement w/ 574 cuft. Circulate cement a minimum of 100' inside the previous casing string.					
<b>Reference Wells:</b>					
Reference Type	Well Name		Comments		

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HARDIE 1N

DEVELOPMENT

## Logging Program:

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

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

GR\_CBL

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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**CONOCOPHILLIPS COMPANY**

HARDIE #1 N  
2124' FSL & 999' FWL  
LOCATED IN THE NW/4 SW/4 OF SECTION 26  
T29N, R8W, N.M.P.M.,  
SAN JUAN COUNTY, NEW MEXICO

**DIRECTIONS**

- 1) FROM BLANCO POST OFFICE IN BLANCO NM., GO EAST ON HWY 64 FOR 8.5 MILES TO RIDGE ROAD TURN OFF.
- 2) TURN RIGHT ONTO RIDGE ROAD, GO 0.7 MILES TO "Y" INTERSECTION.
- 3) STAY TO RIGHT, GO 0.75 MILES TO "Y" INTERSECTION..  
    , TURN RIGHT, GO 0.6 MILES TO "Y" INTERSECTION.  
    ) STAY TO LEFT, GO 0.5 MILES TO "Y" INTERSECTION.  
    ) STAY RIGHT, GO 0.2 MILES.  
    ) TURN LEFT, GO 0.1 MILES TO EXISTING LOCATION. ON EAST SIDE OF EXISTING LOCATION IS BEGIN ACCESS. FOLLOW RED FLAGGING 57' TO NEW LOCATION.

WELL FLAG LOCATED AT LAT. 36.69545°N, LONG.107.65159°W (NAD 83).

JOB No.: COPC205  
DATE: 07/17/08

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