

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RCVD DEC 31 '08
OIL CONS. DIV.
DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	RECEIVED DEC 12 2008	5. Lease Number USA SF-078813 Unit Reporting Number
1b. Type of Well GAS	Bureau of Land Management Farmington Field Office	6. If Indian, All. or Tribe
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP		7. Unit Agreement Name
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700		8. Farm or Lease Name Cooper 9. Well Number #100
4. Location of Well Unit P (SESE), 1034' FSL & 788' FEL Surf: Latitude 36° 73587 N Longitude 108° 02664 W		10. Field, Pool, Wildcat Basin FC/Bianco PC <i>Fulcher-Kutz</i> 11. Sec., Twn, Rge, Mer. (NMPM) P Sec. 7, T29N, R11W API # 30-045-34881
14. Distance in Miles from Nearest Town 5 mile/Bloomfield	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 788'		
16. Acres in Lease 617.8	17. Acres Assigned to Well PC 160 SE/4 FC 320 (E/2)	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 72' from Cooper B 1E DK		
19. Proposed Depth 2099'	 H₂S POTENTIAL EXISTS	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 5741' GL	This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4	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: <i>Rhonda Rogers</i> Rhonda Rogers (Regulatory Technician)		12-11-08 Date

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

PERMIT NO.

APPROVAL DATE

APPROVED BY *[Signature]*

TITLE *AFM*

DATE *12/30/08*

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 NMB-000015 and NMB-000089

JAN 07 2009

NMOCD

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

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87506

State of New Mexico
Energy, Minerals & Natural Resources Department

RECEIVED

Form C-102

Revised October 12, 2005

DEC 12 2008

Submit to Appropriate District Office
 Bureau of Land Management State Lease - 4 Copies
 Farmington Field Office Fee Lease - 3 Copies

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-34881		*Pool Code 7720C 71629/72359	*Pool Name Fulcher/Crtz BASIN FRIUTLAND COAL/BLANCO PICTURED CLIFF	
*Property Code 18498	*Property Name COOPER			*Well Number 100
*GRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP			*Elevation 5741'

¹⁰ Surface Location

UL or lot no. p	Section 7	Township 29N	Range 11W	Lot Idn	Feet from the 1034'	North/South line SOUTH	Feet from the 788'	East/West line EAST	County SAN JUAN
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⁴ Bottom Hole Location If Different From Surface

UL or lot no. P	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹³ Dedicated Acres 160.00 Acres - (SE/4) PC 320.00 Acres - (E/2) FC			¹⁵ Joint or Infill		¹⁴ Consolidation Code		¹⁶ 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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The figure is a survey plat for a land area. It is divided into four numbered sections (1, 2, 3, 4). The plat includes the following information:

- Section 1:** Contains the text "LEASE # FEE LUNSFORD, LR ETUX AND BECK, LOUISE".
- Section 2:** Contains the text "LEASE # USA SF-078813".
- Section 3:** Contains the coordinates: "LAT. 36.73587° N (NAD83)", "LONG. 108.02664° W (NAD83)", "LAT. 36°44'15.192" N (NAD27)", and "LONG. 108°01'56.095" W (NAD27)".
- Section 4:** Contains the text "FND REBAR W/ MARKED STONE".
- Boundaries:** The plat shows a rectangular boundary with dimensions: "S 89°52'18" E", "2625.00' (M)", "S 89°47' E", and "2640.00' (R)".
- Surveyor's Seal:** A circular seal for David R. Russell, Registered Professional Land Surveyor, New Mexico, with the number 10201.
- Signature and Date:** The plat is signed by Crystal Tafoya on 6/3/08.

NAFOCD

COMPANY
Charge Code
WELL NAME
DUAL WELL
TRIPLE WELL

BURLINGTON RESOURCES		
WAN.RFE.PD08.G3		
COOPER # 100	DATE	6/4/2008
WELL NAME	COOPER B # 1 E	
WELL NAME		

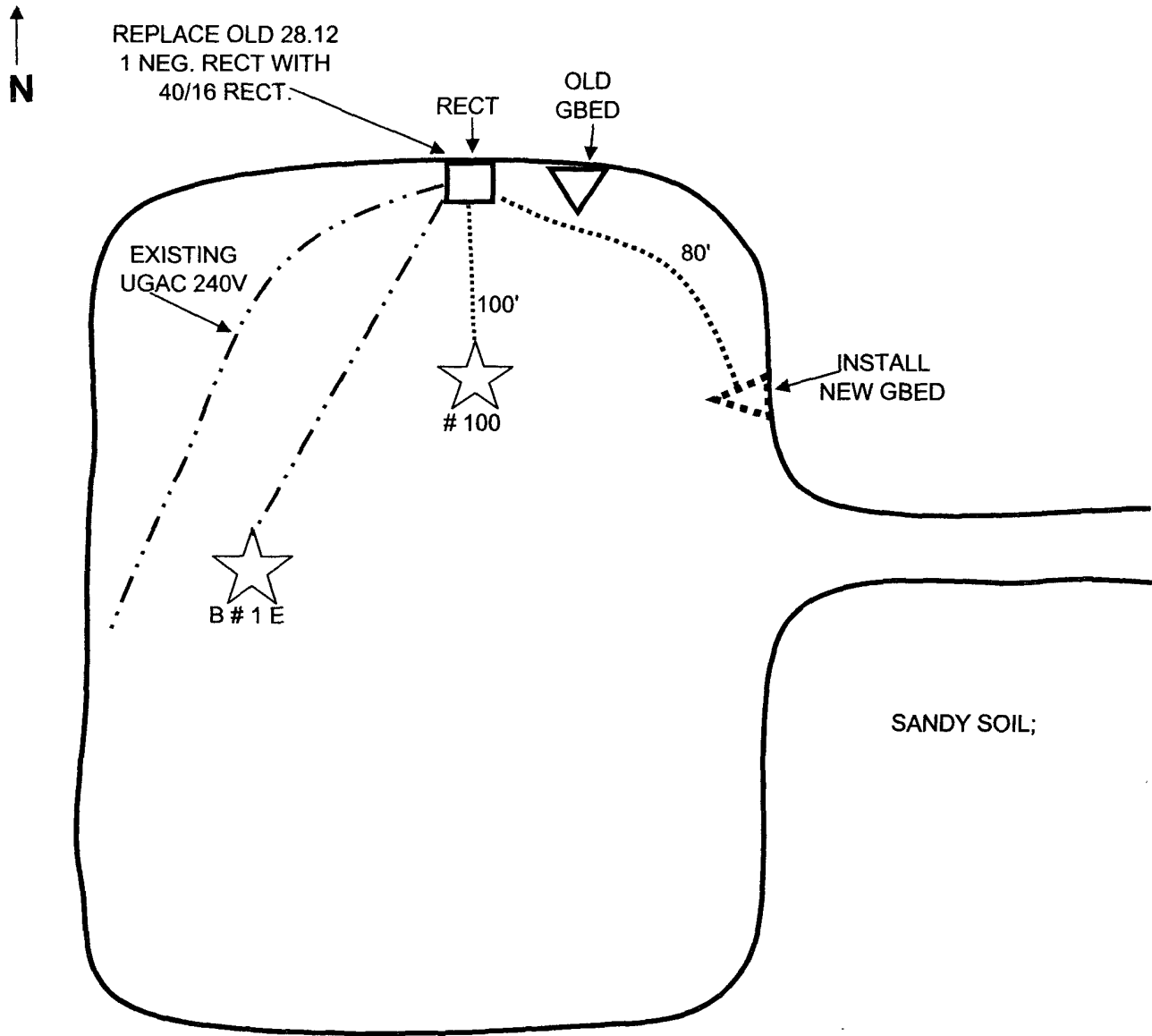
	SEC	TNSHP	RANGE	LATITUDE	LONGITUDE
COORDINATES	P 7	29 N	11 W	36.73587 N	108.02664 W

COUNTY	SAN JUAN
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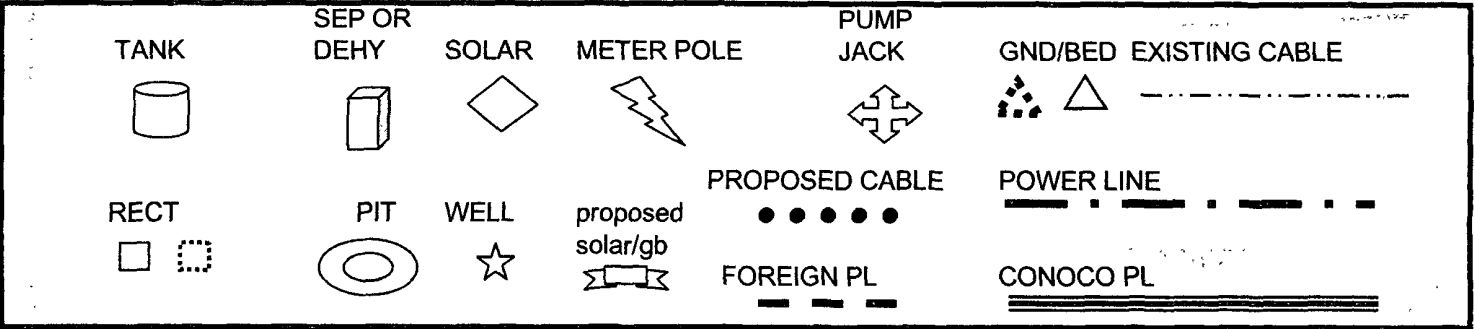
	SIZE	NEEDED	EXISTING	1 PHASE	3 PHASE
<u>RECTIFIER</u>	40/16	X	X		
<u>SOLAR</u>					
<u>GROUND BED</u>		X	X		
<u>240 V METER POLE</u>					
<u>480 V METER POLE</u>					
<u>D C CABLES</u>	# 8	250'			
<u>A C CABLES</u>					
<u>PRIMARY POWER</u>				FMN	
<u>DISTANCE TO POWER</u>				800'	
<u>UNDERGROUND</u>					
<u>PUMPJACK</u>					
<u>WATER PUMP</u>					

COMMENTS	INSTALL NEW GBED
	REPLACE OLD RECT. WITH 40/16 RECT
	1 PHASE CITY OF FMN PRIMARY 800'
	SANDY SOIL

WELL NAME
COOPER # 100



1 PHASE CITY OF FMN PRIMARY 800'



PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

COOPER 100

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8170		AFE \$:	
Field Name: hBR_SAN JUAN		Rig: Aztec Rig 580		State: NM	County: SAN JUAN
Geologist:		Phone:		Geophysicist:	
Geoscientist: Clark, Dave D		Phone: +1 505-326-9762		Prod. Engineer:	
Res. Engineer: Akwari, Bill N		Phone: +1 505-599-4076		Proj. Field Lead:	
Primary Objective (Zones):					
Zone	Zone Name				
JCV	BASIN FRUITLAND COAL (GAS)				
UPL	BLANCO PICTURED CLIFFS				
Location: Surface Datum Code: NAD 27					
Latitude: 36.735865		Longitude: -108.026016		X:	Y:
Footage X: 788 FEL		Footage Y: 1034 FSL		Elevation: 5741 (FT)	Township: 029N
Tolerance:					
Location Type: Year Round		Start Date (Est.): 1/1/2009		Completion Date:	
Formation Data: Assume KB = 5752		Units = FT			
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT
Surface Casing	120	5632	☐		
OJO ALAMO	591	5161	☐		
KIRTLAND	734	5018	☐		
FRUITLAND	1601	4151	☐	150	Gas
PICTURED CLIFFS	1899	3853	☐		Gas
Total Depth	2099	3653	☐		
8-3/4 hole. 7" 20 ppf, J-55 STC csg. Cement with 50 cuft. Circulate cement to surface.					
6-1/4" hole. 4-1/2" 10.5 ppf, J-55, STC casing. Cement with 322 cuft. Circulate cement to surface.					
Reference Wells:					
Reference Type	Well Name		Comments		

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

TD Logs:	☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT
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Additional Information:					
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks

Comments: Location/Tops/Logging - FC/PCNM029N011W07SE1 Twinning option at Cooper B 1E (Chacra/DK). Prefer P, I, J, O

General/Work Description - 8/8/08-MPM: No site survey; conflicting iWaters data. Closed-loop drilling may be required. Likely need a GW hole drilled.

UPE

BURLINGTON RESOURCES O&G CO LP

COOPER #100

1034' FSL & 788' FEL

LOCATED IN THE SE/4 SE/4 OF SECTION 7,

T29N, R11W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM THE INTERSECTION OF HIGHWAY 550 AND C.R. 5030, NORTH OF BLOOMFIELD, NM
TRAVEL WEST ON C.R. 5030 FOR 2.25 MILES
- 2) TURN LEFT AND TRAVEL 0.35 MILES
- 3) TURN LEFT AND TRAVEL 0.4 MILES TO EXISTING WELL LOCATION "COOPER B #1E"

WELL FLAG LOCATED AT LAT. 36.73587° N, LONG. 108.02664° W (NAD 83).

JOB No.: COPC186
DATE: 05/29/08



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