

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DEC 01 2008

Bureau of Land Management
Burlington Field Office

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number USA NM - 02758 Unit Reporting Number
1b. Type of Well GAS	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 Murphy D 9. Well Number #100S
4. Location of Well Surf: Unit L (NWSW), 1737' FSL & 821' FWL Surf: Latitude 36.78094 N Longitude 107.98429 W	10. Field, Pool, Wildcat Basin FC 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 27, T30N, R11W API # 30-045-34856
14. Distance in Miles from Nearest Town 5 miles/Aztec	12. County San Juan 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 821'	
16. Acres in Lease 317.760	17. Acres Assigned to Well Basin FC - 317.760
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 72' from Murphy D #4A -	
19. Proposed Depth 2530'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 5995' 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>Jamie Goodwin</u> Jamie Goodwin (Regulatory Technician)	Date <u>11/25/08</u>

PERMIT NO.

APPROVAL DATE

APPROVED BY [Signature]

TITLE Pct. Eng.

DATE 12/10/08

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

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

NMOCD 76

DEC 17 2008

AV

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

REV DEC 12 '08
OIL CONS. DIV.
DIST. 3

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.

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

RECEIVED

DEC 01 2008

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Bureau of Land Management
Farmington Field Office
Revised: October 12, 2005

Form C-102

DISTRICT II
1901 W. Grand Avenue, Artesia, N.M. 88210

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

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

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

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-34856		*Pool Code 71629	*Pool Name Basin 'FRUITLAND COAL
*Property Code 7339	*Property Name MURPHY D		*Well Number 100 S
*GRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP		*Elevation 5995'

10 Surface Location

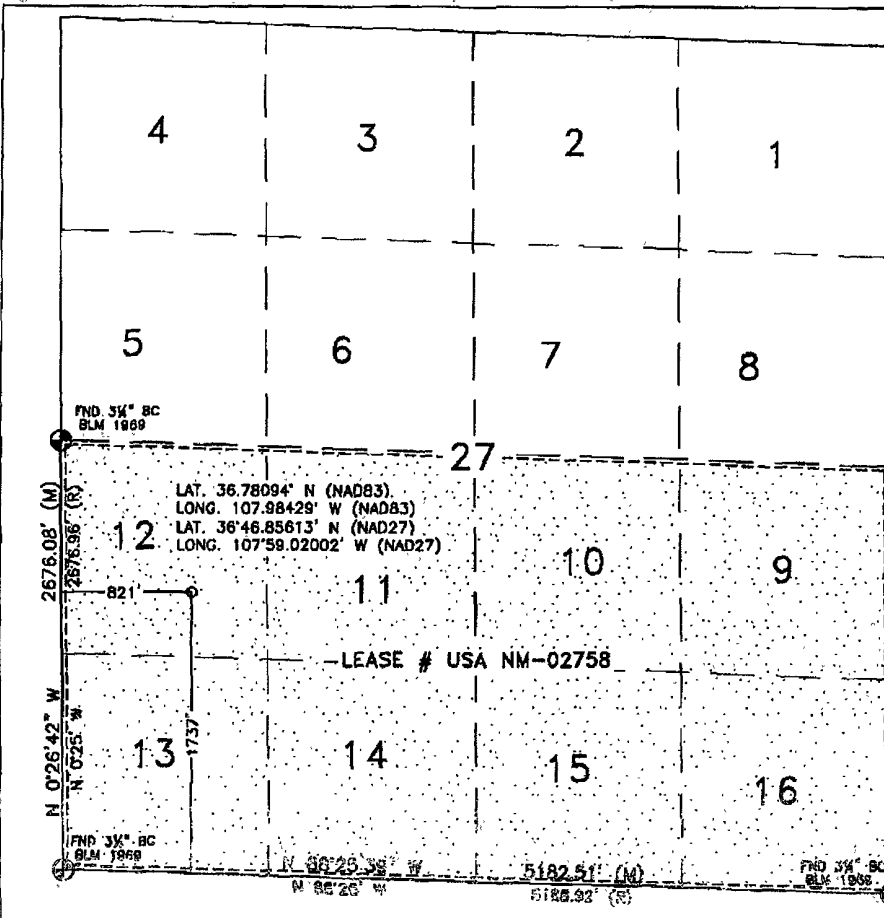
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	27	30N	11W	12	1737'	SOUTH	821'	WEST	SAN JUAN

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
L									
*Dedicated Acres F.C. - 317.76 Acres - (S/2)			*Joint or Infill		*Consolidation Code		*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

16



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: *James Gardenhire* Date: 9/23/08

James Gardenhire
Printed Name

18 SURVEYOR CERTIFICATION

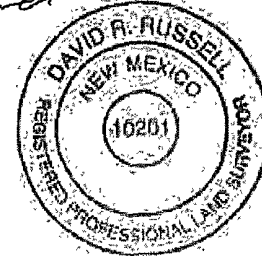
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. --

JUNE 2, 2008

Date of Survey

Signature and Seal of Professional Surveyor:

David R. Russell



DAVID RUSSELL

Cartographic Number 10201

COMPANY
Charge Code
WELL NAME
DUAL WELL
TRIPLE WELL

BURLINGTON RESOURCES		
WAN.RFE.PD08.B1		
MURPHY D # 100 S	DATE	9/26/2008
WELL NAME		
WELL NAME		

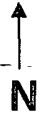
COORDINATES	SEC	TNSHP	RANGE	LATITUDE	LONGITUDE
	L 27	30 N	11 W	36.78094 N	107.98429 W

COUNTY	SAN JUAN
--------	----------

	SIZE	NEEDED	EXISTING	1 PHASE	3 PHASE
RECTIFIER	40/16	X			
SOLAR	(12/4)		X		
GROUND BED		X	X		
240 V METER POLE					
480 V METER POLE		X			
D C CABLES	# 8	200'			
A C CABLES	# 8	?			
PRIMARY POWER				FMN	FMN
DISTANCE TO POWER				800'	850'
UNDERGROUND					
PUMPJACK					
WATER PUMP					

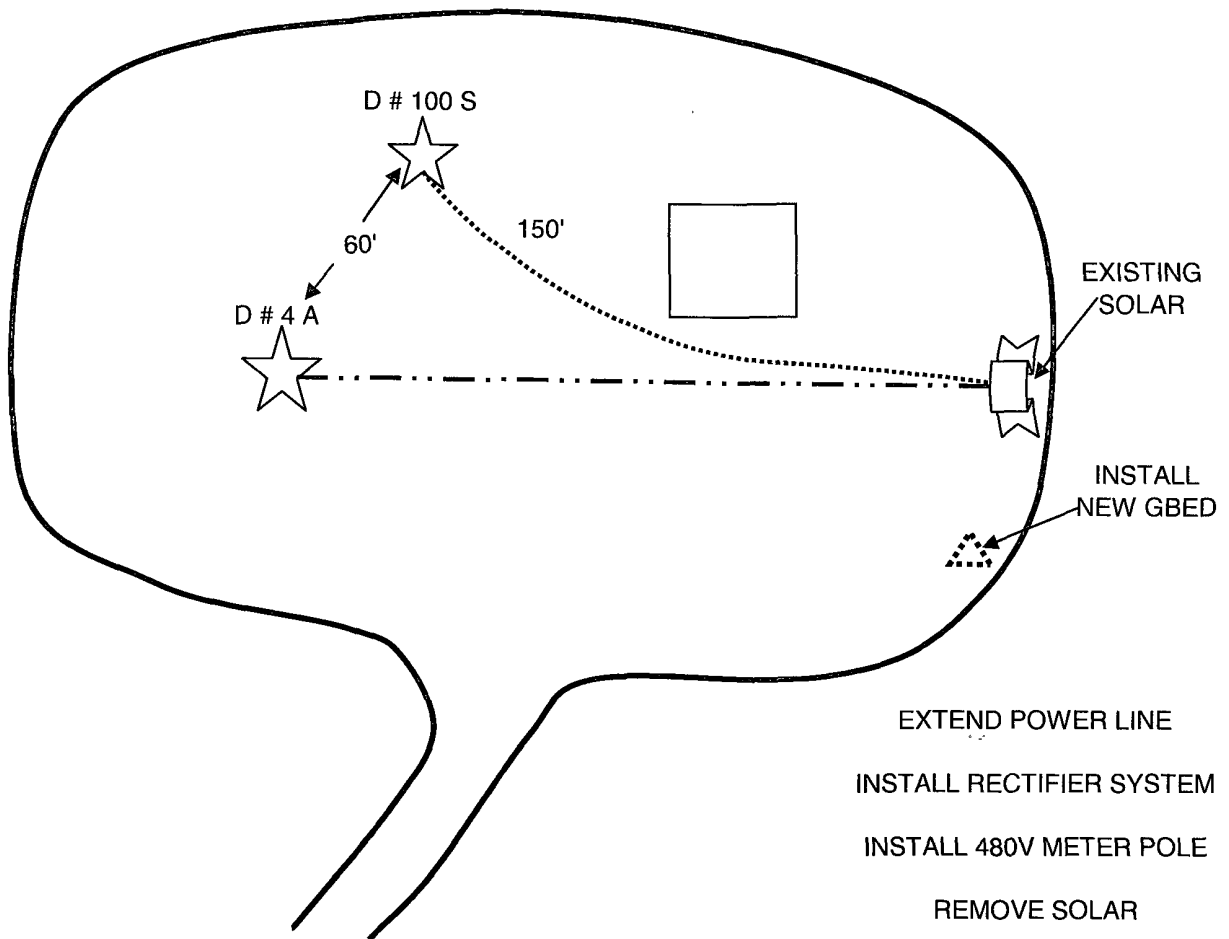
COMMENTS	REMOVE EXISTING SOLAR
	INSTALL NEW GBED
	EXTEND POWER LINE
	INSTALL RECTIFIER SYSTEM
	INSTALL 480V METER POLE

WELL NAME	MURPHY D # 100 S
-----------	-------------------------



3 PHASE CITY OF FMN POWER 850'

1 PHASE CITY OF FMN POWER 800'



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

MURPHY D 100S

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8122		AFE \$: 226,023.59	
Field Name: hBR_SAN JUAN		Rig: Aztec Rig 580		State: NM	County: SAN JUAN
Geologist:		Phone:	Geophysicist:		Phone:
Geoscientist: Clark, Dave D		Phone: +1 505-326-9762	Prod. Engineer:		Phone:
Res. Engineer: Akwari, Bill N		Phone: +1 505-599-4076	Proj. Field Lead:		Phone:
Primary Objective (Zones):					
Zone	Zone Name				
035	FRUITLAND COAL				

Location: Surface		Datum Code: NAD 27			
Latitude: 36.780936	Longitude: -107.983667	X:	Y:	Section: 27	Range: 011W
Footage X: 821 FWL	Footage Y: 1737 FSL	Elevation: 5995 (FT)	Township: 030N		
Tolerance:					

Location Type: Year Round		Start Date (Est.): 1/1/2009		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6006 Units = FT							
Formation Call & casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	120	5886	☐			8-3/4 hole. 7" 20 ppf, J-55 STC csg. Cement with 50 cuft. Circulate cement to surface.	
WJO ALAMO	942	5064	☐				
IRTLAND	1069	4937	☐				
RUITLAND	2028	3978	☐	300		Gas	
ICTURED CLIFFS	2330	3676	☐			Gas	
otal Depth	2530	3476	☐			6-1/4" hole. 4-1/2" 10.5 ppf, J-55, STC casing. Cement with 389 cuft. Circulate cement to surface.	

Reference Wells:		
Reference Type	Well Name	Comments

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

FD Logs:	☐ Triple Combo	☐ Dipmeter	☐ RFT	☐ Sonic	☐ VSP	☐ TDT	☒ Other
No OH logs.							

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

BURLINGTON RESOURCES OIL & GAS COMPANY LP

MURPHY D #100 S
1737' FSL & 821' FWL
LOCATED IN THE NW/4 SW/4 OF SECTION 27,
T30N, R11W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM INTERSECTION OF HWY 550 & 516 IN AZTEC, NM., GO SOUTH ON HWY 550 FOR 3.8 MILES.
- 2) TURN RIGHT & GO 0.1 MILES.
- 3) TURN RIGHT & GO 0.2 MILES.
- 4) TURN RIGHT & GO 0.3 MILES TO EXISTING TWINNED LOCATION.

WELL FLAG LOCATED AT LAT. 36.78094°N, LONG. 107.98429°W (NAD 83).

