

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DEC 05 2008

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APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK
Farmington Field Office

RCVD APR 22 '09
OIL CONS. DIV.
DIST. 3

1a. Type of Work DRILL	5. Lease Number USA SF-079634 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 McClanahan 9. Well Number #21S	
4. Location of Well Unit O (SWSE), 1300' FSL & 1945' FEL Latitude 36.658505 N Longitude 107.844620 W	10. Field, Pool, Wildcat Basin Fruitland Coal 11. Sec., Twn, Rge, Mer. (NMPM) 0 Sec. 13, T28N, R10W API # 30-045-34868	
14. Distance in Miles from Nearest Town 3.6 mile/Bloomfield	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1945'		
16. Acres in Lease	17. Acres Assigned to Well FC 320 (E/2)	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 991' from the McClanahan 2		
19. Proposed Depth 2113'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 5742' GL	22. Approx. Date Work will Start	

23. Proposed Casing and Cementing Program
See Operations Plan attached

24. Authorized by: Jamie Goodwin
Jamie Goodwin (Regulatory Technician)

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS

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 NMB-000015 and NMB-000089

APR 24 2009

NMOCD

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

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

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised October 12, 2005

DISTRICT II
1301 West Grand Avenue, Artesia, N.M. 88210

OIL CONSERVATION DIVISION

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

Submit to Appropriate District Office
5 2008 State Lease - 4 Copies
Fee Lease - 3 Copies

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

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

Bureau of
Farmington Field Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number 30-045-348108	'Pool Code 71629	'Pool Name BASIN FRUITLAND COAL
'Property Code 18577	'Property Name MCCLANAHAN	'Well Number 21S
'GRID No. 14538	'Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	'Elevation 5742'

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
0	13	28-N	10-W		1300'	SOUTH	1945'	EAST	SAN JUAN

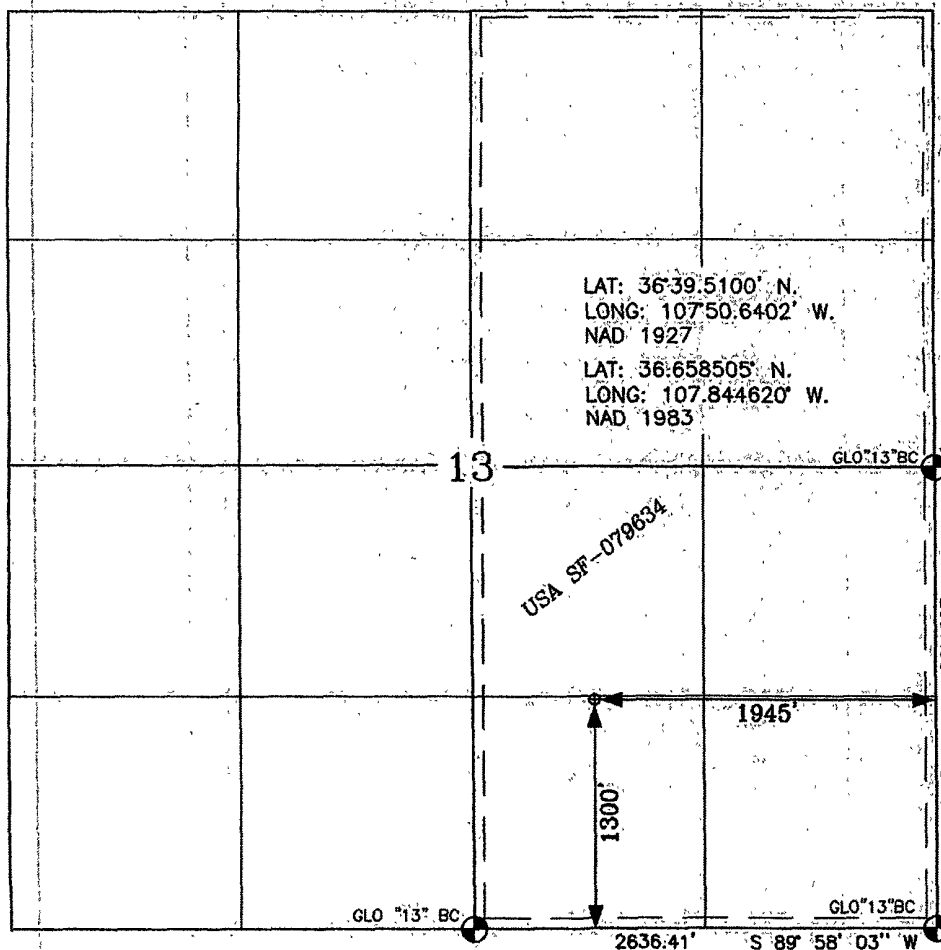
11 Bottom Hole Location If Different From Surface

[illegible]

¹⁰ Dedicated Acres FC 320.0 ACRES E/2	¹¹ Joint or Infill	¹² Consolidation Code	¹³ 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

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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 of such a mineral or working interest or an unleased pooling agreement or a compulsory pooling order heretofore entered by the Division.

Cystal Tapia 8/19/08
Signature

Crystal Tafoya 8-19-08
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 knowledge.

Date of Survey: 15/11/2011

Signature and Seal of Professional Surveyor:

Certificate Number 15703

COMPANY

BURLINGTON RESOURCES

Charge Code

WAN.RFE.PD08.E5

WELL NAME

MCCLANAHAN # 21 S

DATE

6/10/2008

DUAL WELL

WELL NAME

TRIPLE WELL

WELL NAME

COORDINATES

SEC

TNSHP

RANGE

LATITUDE

LONGITUDE

O 13

28 N

10 W

36.658281 N

107.844696 W

COUNTY

SAN JUAN

RECTIFIER

SOLAR

GROUND BED

240 V METER POLE

480 V METER POLE

D C CABLES

A C CABLES

PRIMARY POWER

DISTANCE TO POWER

UNDERGROUND

PUMPJACK

WATER PUMP

SIZE	NEEDED	EXISTING	1 PHASE	3 PHASE
30/12	X			
	X			
	X			
# 8	200'			
# 8	150'			
			CITY OF FMN	
			190'	

COMMENTS

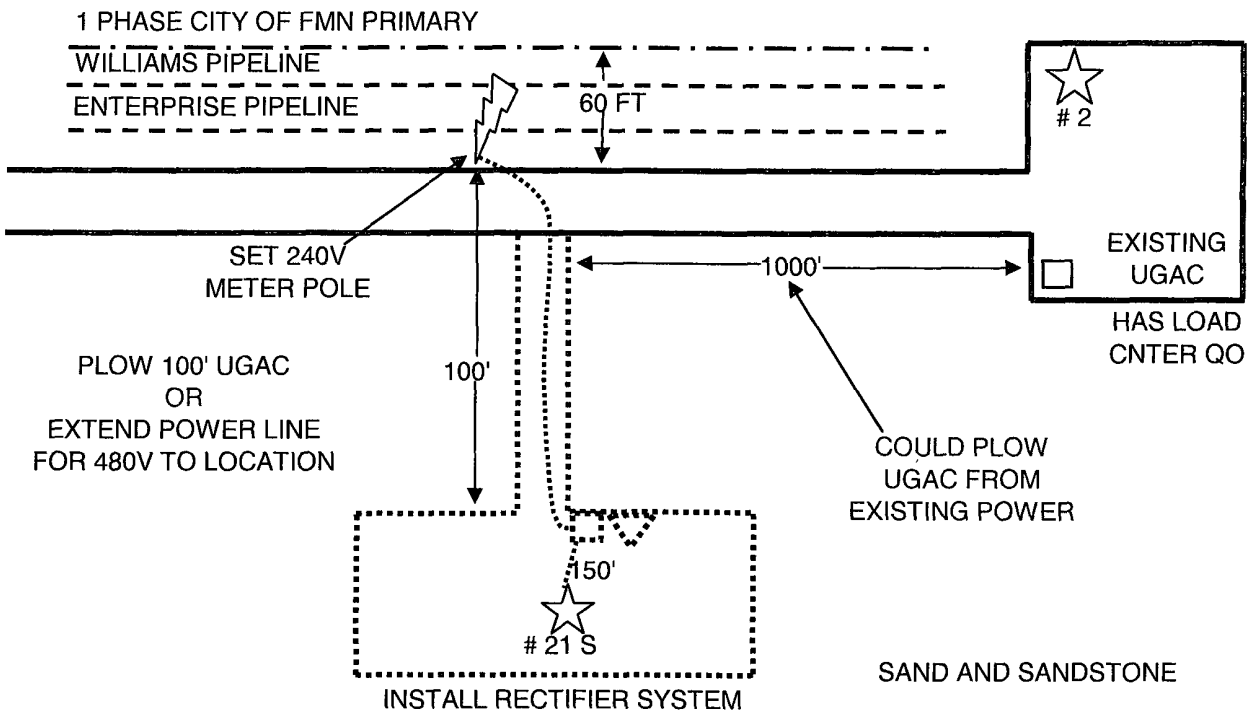
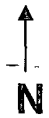
INSTALL RECTIFIER SYSTEM

1 PHASE CITY OF FMN PRIMARY 190'

SAND AND SANDSTONE

PLOW 100' UGAC OR EXTEND POER LINE FOR 480V TO LOCATION

WELL NAME	MCCLANAHAN # 21 S
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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

MCCLANAHAN 21S

DEVELOPMENT

Lease:		AFE #: WAN.CDR.5154		AFE \$: 207,444.33	
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: Akwar Bill N		Phone: +1 505-599-4076		Proj. Field Lead:	
				Phone:	

Primary Objective (Zones):

Zone	Zone Name
JCV	BASIN FRUITLAND COAL (GAS)

Location: Datum Code: NAD 27

Latitude: 36.658498	Longitude: -107.844002	X:	Y:	Section: 13	Range: 010W
Footage X: 1945 FEL	Footage Y: 1300 FSL	Elevation: 5742	(FT)	Township: 028N	

Tolerance:

Location Type: Year Round Start Date (Est.): 1/1/2009 Completion Date: Date In Operation:

Formation Data: Assume KB = 5753 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	120	5633	☐			8-3/4 hole. 7" 20 ppf, J-55 STC csg. Cement with 50 cuft. Circulate cement to surface.
OJO ALAMO	855	4898	☐			
KIRTLAND	955	4798	☐			
FRUITLAND	1469	4284	☐	800		Gas
PICTURED CLIFFS	1913	3840	☐			Gas
Total Depth	2113	3640	☐			6-1/4" hole. 4-1/2" 10.5 ppf, J-55, STC casing. Cement with 325 cuft. Circulate cement to surface.

Reference Wells:

Reference Type	Well Name	Comments
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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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Directions from the Intersection of
Hwy 550 and Hwy64,
in Bloomfield, NM
to

Burlington Resources Oil & Gas Company LP
MCCLANAHAN 21S
1300' FSL & 1945' FEL,
Section 13, T28N, R10W, N.M.P.M., San Juan County,
New Mexico
Latitude: 36° 39' 30.62" N
Longitude: 107° 50' 40.63" W
Nad 83

Go south on Hwy 550 for 1.0 miles to CR 4990,
turn left (easterly) on CR 4990 (Sullivan Road) 8.5 miles,
turn right (southerly) 1.7 miles,
turn right (southwesterly) 0.9 miles,
to the newly staked location.