

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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MAY 28 2009

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Bureau of Land Management

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1a. Type of Work DRILL	5. Lease Number NM-0558144 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 Trail Canyon 9. Well Number 102S	
4. Location of Well Surf: Unit H(ENE), 1630' FNL & 750' FEL Bottomhole: Unit E(SWNW), 1510' FNL & 1100' FWL Surf: Latitude: 36.97243° N (NAD83) Longitude: 107.69189° W Bottomhole: Latitude: 36.97265° N (NAD83) Longitude: 107.68556° W	10. Field, Pool, Wildcat Basin Fruitland Coal 11. Sec., Twn, Rge, Mer. (NMPM) H SH - Sec. 20, T32N, R8W E BH - Sec. 21, T32N, R8W API # 30-045-34984	
14. Distance in Miles from Nearest Town 26 miles/Navajo Dam	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 750'		
16. Acres in Lease 640.00	17. Acres Assigned to Well FC 320.00 (W/2)	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 52' from Rattlesnake Canyon 105 (FC)		
19. Proposed Depth 3820'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6802' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached	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	
24. Authorized by: <u>Crystal Tafoya</u> Crystal Tafoya (Regulatory Technician)	Date <u>6/22/09</u>	

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 1

Bond Numbers NMB-000015 and NMB-000089

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

JUN 25 2009

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

NMOCD

Hold C104

for Directional Survey
and "As Drilled" plat

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

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

DISTRICT II
1301 W. Grand Ave., Artesia, N.M. 88210

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

DISTRICT IV
1220 South 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

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Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

Bureau of Land Management
Farmington Field Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-34984		² Pool Code 71629		³ Pool Name BASIN FRUITLAND COAL	
⁴ Property Code 18631		⁵ Property Name TRAIL CANYON			⁶ Well Number 1025
⁷ GRID No. 14538		⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP			⁹ Elevation 6802

¹⁰ Surface Location

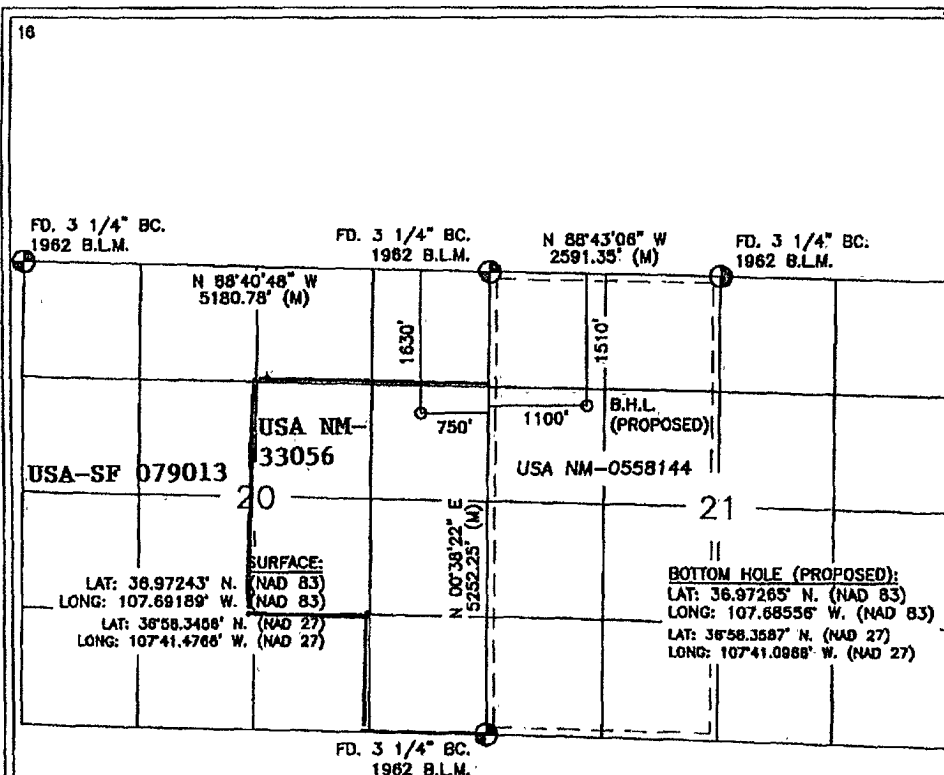
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	20	32-N	8-W		1630	NORTH	750	EAST	SAN JUAN

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
E	21	32-N	8-W		1510	NORTH	1100	WEST	SAN JUAN

¹² Dedicated Acres 320.00 acres (W/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



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.

Crystal Tafoya 3/26/09
Signature Date
Crystal Tafoya 3-26-09
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.

DECEMBER 20, 2007
Date of Survey
Signature and Seal of Professional Surveyor:
8894
Certificate Number

COMPANY
Charge Code
WELL NAME
DUAL WELL
TRIPLE WELL

BURLINGTON RESOURCES	
WAN.ZA2.2891	
TRAIL CANYON # 102 S	DATE 1/16/2008
WELL NAME	# 105
WELL NAME	

COORDINATES

SEC	TNSHP	RANGE	LATITUDE	LONGITUDE
H 20	32 N	8 W	36 58.3456 N	107 41.4766 W

COUNTY

SAN JUAN

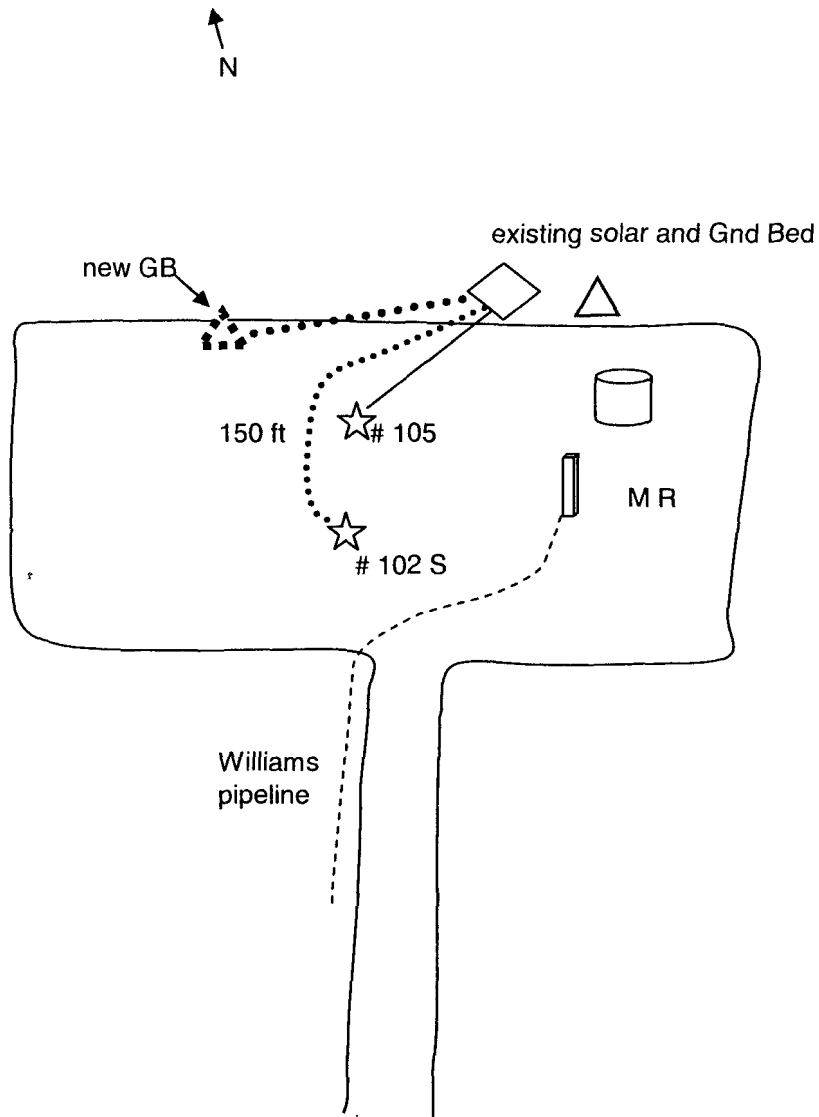
RECTIFIER
SOLAR
GROUND BED
240 V METER POLE
480 V METER POLE
D C CABLES
A C CABLES
PRIMARY POWER
DISTANCE TO POWER
UNDERGROUND
PUMPJACK
WATER PUMP
COMPRESSOR
RTU
SAMS
TANKS

SIZE	NEEDED	EXISTING	1 PHASE	3 PHASE
dual	x			
	x			
# 8	200 ft			
			city Fmt	
			3/4 mile	

COMMENTS

remove single solar - install dual solar - install new GB where shadow effect is not present
rocky and clay soil

WELL NAME	TRAIL CANYON # 102 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

TRAIL CANYON 102S

DEVELOPMENT

Lease:		AFE #: WAN.ZA2.2891		AFE \$: 1,213,387.01	
Field Name: hBR_SAN JUAN		Rig: XXX 2010 Holding Rig		State: NM	County: SAN JUAN
Geologist:		Phone:		Geophysicist:	
Geoscientist: Johnson, David		Phone: +1 505-324-6169		Prod. Engineer:	
Res. Engineer: Prabowo, Wahyu		Phone: +1-505-326-9797		Proj. Field Lead:	

Primary Objective (Zones):

Zone	Zone Name
JCV	BASIN FRUITLAND COAL (GAS)

Location: Surface		Datum Code: NAD 27		Directional:	
Latitude: 36.972427	Longitude: -107.691275	X:	Y:	Section: 20	Range: 008W
Footage X: 750 FEL	Footage Y: 1630 FNL	Elevation: 6802	(FT)	Township: 032N	
Tolerance:					

Location: Bottom Hole		Datum Code: NAD 27		Directional:	
Latitude: 36.972647	Longitude: -107.684945	X:	Y:	Section: 21	Range: 008W
Footage X: 1100 FWL	Footage Y: 1510 FNL	Elevation:	(FT)	Township: 032N	
Tolerance:					

Location Type: Restricted	Start Date (Est.): 1/1/2010	Completion Date:	Date In Operation:
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Formation Data: Assume KB = 6817	Units = FT
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Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	123	6694	<input type="checkbox"/>			12-1/4 hole. 9 5/8" 32.3 ppf, H-40, STC casing. Circulate cement to surface. Cement with 105 cuft.
OJO ALAMO	2147	4670	<input type="checkbox"/>			Possible water flows.
KIRTLAND	2197	4620	<input type="checkbox"/>			
Intermediate Casing	3367	3450	<input type="checkbox"/>			8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Circulate cement to surface. Cement with 898 cuft.
T/FRUITLAND COAL	3417	3400	<input type="checkbox"/>	600		May be leaving minor coal stringers behind pipe.
B/FRUITLAND COAL	3730	3087	<input type="checkbox"/>			
PICTURED CLIFFS	3737	3080	<input type="checkbox"/>			TD is 90' below last coal.
Total Depth	3820	2997	<input type="checkbox"/>			6-1/4" hole possibly underreamed to 9.5". Optional Liner: 5.5", 15.5#, J-55 LTC - left uncemented.

Reference Wells:		
Reference Type	Well Name	Comments
Production	Rattlesnake Canyon 105	NE20-32N-08W
Production	Rattlesnake Canyon 105S	SE20-32N-08W
Production	Trail Canyon 104S	SE21-32N-08W
Production	Susco 16 State 101S	SE16-32N-08W
Production	Trail Canyon 1	SW21-32N-08W
Production	Susco 16 State 1	SW16-32N-08W

Logging Program:	
Intermediate Logs:	<input type="checkbox"/> Log only if show <input type="checkbox"/> GR/ILD <input type="checkbox"/> Triple Combo

TD Logs:	<input type="checkbox"/> Triple Combo <input type="checkbox"/> Dipmeter <input type="checkbox"/> RFT <input type="checkbox"/> Sonic <input type="checkbox"/> VSP <input type="checkbox"/> TDT <input checked="" type="checkbox"/> Other
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PROJECT PROPOSAL - New Drill / Sidetrack

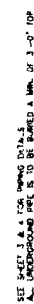
TRAIL CANYON 102S

DEVELOPMENT

Mudlog production hole - loggers will call TD.

Additional Information: *P.C. non-prod (sump request in non-prod PC (verbal PC @ 1400 5/28/09) CEH*

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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5 OF 5

[illegible]

**Directions from the post office at Navajo Dam, New Mexico, to the
Burlington Resources Oil & Gas Company, LP**

Trail Canyon #102S well location

**1630' FNL 750' FEL Section 20, T32N R8W, NMPM, in San Juan County, New
Mexico**

From the post office at Navajo Dam, New Mexico (Lat. 36.80500° N, Long. 107.69806° W):

Travel easterly on Hwy 173 0.5 mi to the intersection with Hwy 511 (Lat. 36.80306° N, Long. 107.69056° W).

Turn left on Hwy 511 and travel northeasterly 20.5 mi to MP 28.6 at the top of Reese Canyon (Lat. 36.98528° N, Long. 107.64778° W).

Turn left on a major field road and travel northerly and westerly 3.1 mi (Lat. 36.98972° N, Long. 107.69250° W).

Turn left and travel south 0.2 mi to a T-intersection (Lat. 36.98806° N, Long. 107.69333° W).

Turn left and travel southeasterly 0.6 mi to a large stock pond (Lat. 36.98472° N, Long. 107.68417° W).

Stay to right and travel southerly, up a hill, 1.1 mi to the new location at the existing Rattlesnake Canyon #105 location (Lat. 36.97243° N, Long. 107.69189° W).