

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

JAN 20 2009

Bureau of Land Management  
Farmington Field Office

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number USA SF-080675 Unit Reporting Number NMNM-784084-MV NMNM784086-DL	
1b. Type of Well GAS	6. If Indian, All. or Tribe ROUD MAR 13 '08	
2. Operator <b>BURLINGTON</b> RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name San Juan 27-4 Unit	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499  (505) 326-9700	8. Farm or Lease Name DIST. 3  9. Well Number 37P	
4. Location of Well Surf: Unit O(SWSE), 940' FSL & 2360' FEL  Surf: Latitude: 36.525292 N Longitude: 107.255476 W	10. Field, Pool, Wildcat Basin Dakota / Blanco Mesaverde  11. Sec., Twn, Rge, Mer. (NMPM) 0 Sec. 33, T27N, R4W  API # 30-039-30659	
14. Distance in Miles from Nearest Town 8 mile/Couneslors, NM	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 940'	17. Acres Assigned to Well MV 320.00 (E/2) PK 320.00 S/2	
16. Acres in Lease 2,400.000	18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 959' from San Juan 27-4 Unit 37M (MV)	
19. Proposed Depth 8424'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 7179' GL	22. Approx. Date Work will Start BIM'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>James Gardenhire</u> James Gardenhire (Regulatory Technician) Date <u>1-15-09</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 3

Bond Numbers NMB-000015 and NMB-000089

NOTIFY AZTEC OGD 24 HRS.  
PRIOR TO CASING & CEMENT

## District I

1625 N. French Dr., Hobbs, NM 88240

## District II

1301 W. Grand Avenue, Artesia, NM 88210

## District III

1000 Rio Brazos Rd., Aztec, NM 87410

## District IV

1220 S. 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

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 7 Copies

Fee Lease - 3 Copies

JAN 20 2009  
Bureau of Land Management  
Farmington Field Office

AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-039- 30659	<sup>2</sup> Pool Code 71599/72319	<sup>3</sup> Pool Name Blanco MESAVERDE / DAKOTA
<sup>4</sup> Property Code 7452	<sup>5</sup> Property Name SAN JUAN 27-4 UNIT	<sup>6</sup> Well Number 37P
<sup>7</sup> OGRID No. 14538	<sup>8</sup> Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP	<sup>9</sup> Elevation 7179

<sup>10</sup> SURFACE LOCATION

UL or lot no. 0	Section 33	Township 27-N	Range 4-W	Lot Idn	Feet from the 940	North/South line SOUTH	Feet from the 2360	East/West line EAST	County RIO ARriba
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<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no. 0	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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<sup>12</sup> Dedicated Acres 320.00 E/2	<sup>13</sup> Joint or Infill MV	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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320.5/2 OK 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

<sup>16</sup> <div style="text-align: center;"> <p>E/2 DEDICATED ACREAGE USA SF-080675 SECTION 33 T-27-N, R-4-W</p> </div>	<div style="text-align: center;"> <p>WELL FLAG NAD 83 LAT: 36.525292° N LONG: 107.255478° W NAD 27 LAT: 36°31.516940' N LONG: 107°15.292666' W</p> </div>	<sup>17</sup> OPERATOR CERTIFICATION <p>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.</p> <p><i>Sasha Spangler</i> Signature Sasha Spangler Printed Name Regulatory Technician Title and E-mail Address 11-29-07 Date</p>

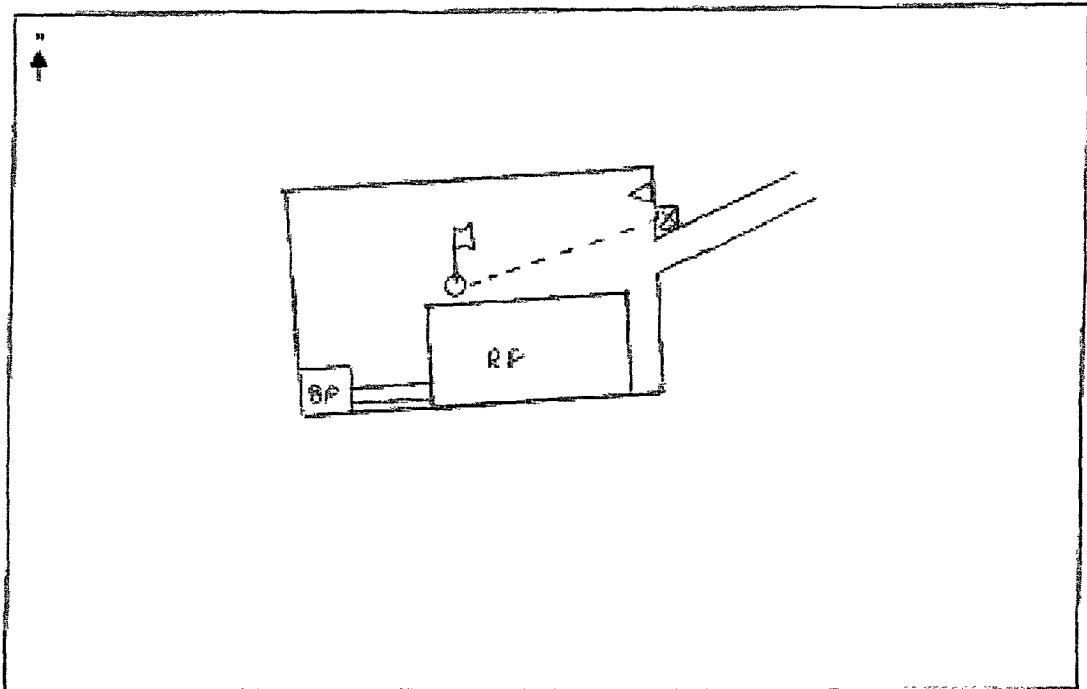


TECHNICAL SERVICES  
A CORROSION COMPANY

### CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME ST 27-4 #372 LEGALS 0-33-27-4 COUNTY Runnels

PURPOSED C.P. SYSTEM: Drill 2B and set 2 well cables on NE edge of location. Trench  
away 175' of 2B away from proposed well to road.



COMMENTS: Wells in forest area

NEAREST POWER SOURCE WLA

DISTANCE: \_\_\_\_\_

PIPELINES IN AREA: \_\_\_\_\_

TECHNICIAN: Mark H. Thompson

DATE: 12/15/07

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 37P

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8373		AFE \$:	
Field Name: hBR_SAN JUAN 27-4 UNIT		Rig: Aztec Rig 673		State: NM	County: RIO ARriba
Geologist:		Phone:		Geophysicist:	
Geoscientist:		Phone:		Prod. Engineer:	
Res. Engineer: Prabowo, Wahyu		Phone: +1-505-326-9797		Proj. Field Lead:	
				Phone:	

## Primary Objective (Zones):

Zone	Zone Name
R20002	MESAVERDE(R20002)
R20076	DAKOTA(R20076)

## Location: Surface Datum Code: NAD 27

Latitude: 36.525282	Longitude: -107.254877	X:	Y:	Section: 33	Range: 004W
Footage X: 2360 FEL	Footage Y: 940 FSL	Elevation: 7179	(FT)	Township: 027N	
Tolerance:					

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

Formation Data: Assume KB = 7193 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	350	6843	<input type="checkbox"/>			12-1/4 hole. 350' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 265 cuft. Circulate cement to surface.
OJO ALAMO	3459	3734	<input type="checkbox"/>			
KIRTLAND	3526	3667	<input type="checkbox"/>			
FRUITLAND	3647	3546	<input type="checkbox"/>			Possible Gas
PICTURED CLIFFS	3984	3209	<input type="checkbox"/>			
LEWIS	4061	3132	<input type="checkbox"/>			
Intermediate Casing	4211	2982	<input type="checkbox"/>			8 3/4" Hole. 7", 20/23 ppf, J-55, STC Casing. Cement with 948 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	4448	2745	<input type="checkbox"/>			
CHACRA	4943	2250	<input type="checkbox"/>			
UPPER CLIFF HOUSE	5612	1581	<input type="checkbox"/>			Gas; Est. Top Perf - 5614 (1579)
MASSIVE CLIFF HOUSE	5676	1517	<input type="checkbox"/>	872		Gas
MENEFEE	5801	1392	<input type="checkbox"/>			
POINT LOOKOUT	6145	1048	<input type="checkbox"/>			
MANCOS	6649	544	<input type="checkbox"/>			
UPPER GALLUP	7287	-94	<input type="checkbox"/>			
GREENHORN	8089	-896	<input type="checkbox"/>			
GRANEROS	8146	-953	<input type="checkbox"/>			
TWO WELLS	8168	-975	<input type="checkbox"/>	1400		Gas
PAGUATE	8283	-1090	<input type="checkbox"/>			
UPPER CUBERO	8307	-1114	<input type="checkbox"/>			
LOWER CUBERO	8342	-1149	<input type="checkbox"/>			Est. Btm Perf - 8374 (-1181) based on offset wells
OAK CANYON	8369	-1176	<input type="checkbox"/>			TD - 20' Below Top of Oak Canyon
Total Depth	8389	-1196	<input type="checkbox"/>			6-1/4" hole, 4-1/2" 10.5/11.6 ppf, J-55, STC/LTC casing. Cement w/ 570 cuft. Circulate cement a minimum of 100' inside the previous casing string.
ENCINAL	8424	-1231	<input type="checkbox"/>			

## Reference Wells:

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 37P

DEVELOPMENT

Reference Type	Well Name	Comments
Intermediate	SJ 27-4 Unit 37M	SE 33-27n-04w
Intermediate	SJ 27-4 Unit 69M	NWSE 34-27n-04w
Production	SJ 27-4 37	27N-4W33 NW SE SW
Production	SJ 27-4 37M	27N-4W33 NW SE

**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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Commentary Location (Type/Logging) - DK 027N04W33SE2 and MV/NM027N04W33SE2.



SHEET 1 OF 5

[illegible]

# **BURLINGTON RESOURCES OIL & GAS COMPANY LP**

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**SAN JUAN 27-4 UNIT #37P**

**940' FSL, 2360' FEL**

**SECTION 33, T-27-N, R-4-W, N.M.P.M.,**

**RIO ARriba COUNTY, NEW MEXICO**

**NAD 83 LAT.: 36.525292° N LONG.: 107.255476° W**

**ELEV.: 7179 NAVD88**

**NEW ACCESS ROAD 685'**

**DRIVING DIRECTIONS TO: BROG SAN JUAN 27-4 UNIT #37P.**

**FROM BLOOMFIELD, N.M. AT INTERSECTION OF HWY 550 AND HWY 64: TRAVEL EAST ON HWY 64 FOR 36.4 MI. (TO MILE POST 101.1). TURN RIGHT (BY GOBERNADOR SCHOOL) AND TRAVEL SOUTH ON CR 366.**

**BEGIN MILEAGE:**

- AT 1.0 MI: "Y" IN ROAD, STAY RIGHT ON "AMERICAN GENERAL" ROAD.
- AT 1.3 MI: CROSS CATTLE GUARD.
- AT 3.4 MI: CROSS CATTLE GUARD.
- AT 3.9 MI: CROSS CATTLE GUARD.
- AT 4.4 MI: ROAD INTERSECTION, STAY STRAIGHT AHEAD.
- AT 5.4 MI: CROSS WASH AND CONTINUE PAST "TWIN PEAKS" SIGN.
- AT 7.1 MI: CROSS CATTLE GUARD.
- AT 8.3 MI: Y IN ROAD, STAY LEFT, PASS "SPEED SIGN"
- AT 9.5 MI: Y IN ROAD, STAY LEFT.
- AT 10.5 MI: CROSS CATTLE GUARD.
- AT 11.3 MI: PASS SPEED SIGN.
- AT 11.8 MI: CROSS CATTLE GUARD.
- AT 14.7 MI: TURN RIGHT.
- AT 14.9 MI: FROM TURNING OFF HWY 64, CROSS "CAREZA WASH".
- AT 15.2 MI: TURN LEFT AT POND.
- AT 15.6 MI: BEGIN UPHILL GRADE.
- AT 15.7 MI: Y IN ROAD, STAY LEFT, ON FOREST ROAD 315.
- AT 16.7 MI: CROSS CATTLE GUARD.
- AT 17.6 MI: Y IN ROAD, TURN RIGHT, ON FOREST ROAD 315.
- AT 18.2 MI: CROSS WELL PAD.
- AT 18.9 MI: Y IN ROAD, STAY LEFT ON FOREST ROAD 315.
- AT 19.1 MI: CROSS WELL PAD BROG 149B.
- AT 19.8 MI: CROSS CATTLE GUARD.
- AT 20.0 MI: PASS CIRUELAS WELL.
- AT 20.1 MI: FOREST ROAD INTERSECTION 315 AND 315G. CONTINUE ON FOREST ROAD 315.
- AT 20.4 MI: TURN RIGHT AT INTERSECTION OF FOREST ROAD 315 AND 316. TRAVEL SOUTHERLY ON FOREST ROAD 316.
- AT 22.5 MI: FROM HWY 64, RIGHT SIDE FOREST ROAD 316, BEGIN 685' NEW ACCESS TO WELL STAKED BROG SAN JUAN 27-4 UNIT #37P.