

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

2007 MAR 23 PM 3:39

RCVD MAR 9 '10  
OIL CONS. DIV.  
DIST. 3

1a. Type of Work DRILL	5. Lease Number USA SF-080670 Unit Reporting Number NMNM-78408B	
1b. Type of Well GAS	6. If Indian, All. or Tribe	
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  9. Well Number #52E	
4. Location of Well Surf: Unit K (NESW), 2520' FSL & 2339' FWL  SURF: Latitude 36° 32' 38.25420 N Longitude 107° 16' 26.39251 W	10. Field, Pool, Wildcat Basin DK  11. Sec., Twn, Rge, Mer. (NMPM) Sec. 29, T27N, R4W  API # 30-039- 30232	
14. Distance in Miles from Nearest Town 28 mile/Blanco	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 2339'	17. Acres Assigned to Well DK 320 (W/2)	
16. Acres in Lease		
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 1306' San Juan 27-4 Unit 52		
19. Proposed Depth 8519'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 7220' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Rhonda Rogers</u> Rhonda Rogers (Regulatory Technician)	3-22-07 Date	

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

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVED BY [Signature] TITLE ATM DATE 3/3/2010

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

NOTIFY AZTEC OCD 24 HRS.  
PRIOR TO CASING & CEMENT

MAR 11 2010

NMOC

## 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

Fee Lease - 3 Copies

State Lease - 7 Copies

Submit to Appropriate District Office

Revised June 10, 2003

Form C-102

2007 MAR 23 PM 3:39

☐ AMENDED REPORT

RECEIVED  
WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-039-30232		<sup>2</sup> Pool Code 71599		210 FARM 3-SECTION NM BASIN DAKOTA (PRORATED GAS)	
<sup>4</sup> Property Code 7452		<sup>5</sup> Property Name SAN JUAN 27-4 UNIT			<sup>6</sup> Well Number 52E
<sup>7</sup> OGRID No. 14538		<sup>8</sup> Operator Name BURLINGTON OIL AND GAS COMPANY LP			<sup>9</sup> Elevation 7219.6'

<sup>10</sup> SURFACE LOCATION

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	29	27-N	04-W		2520	SOUTH	2339	WEST	RIO ARriba

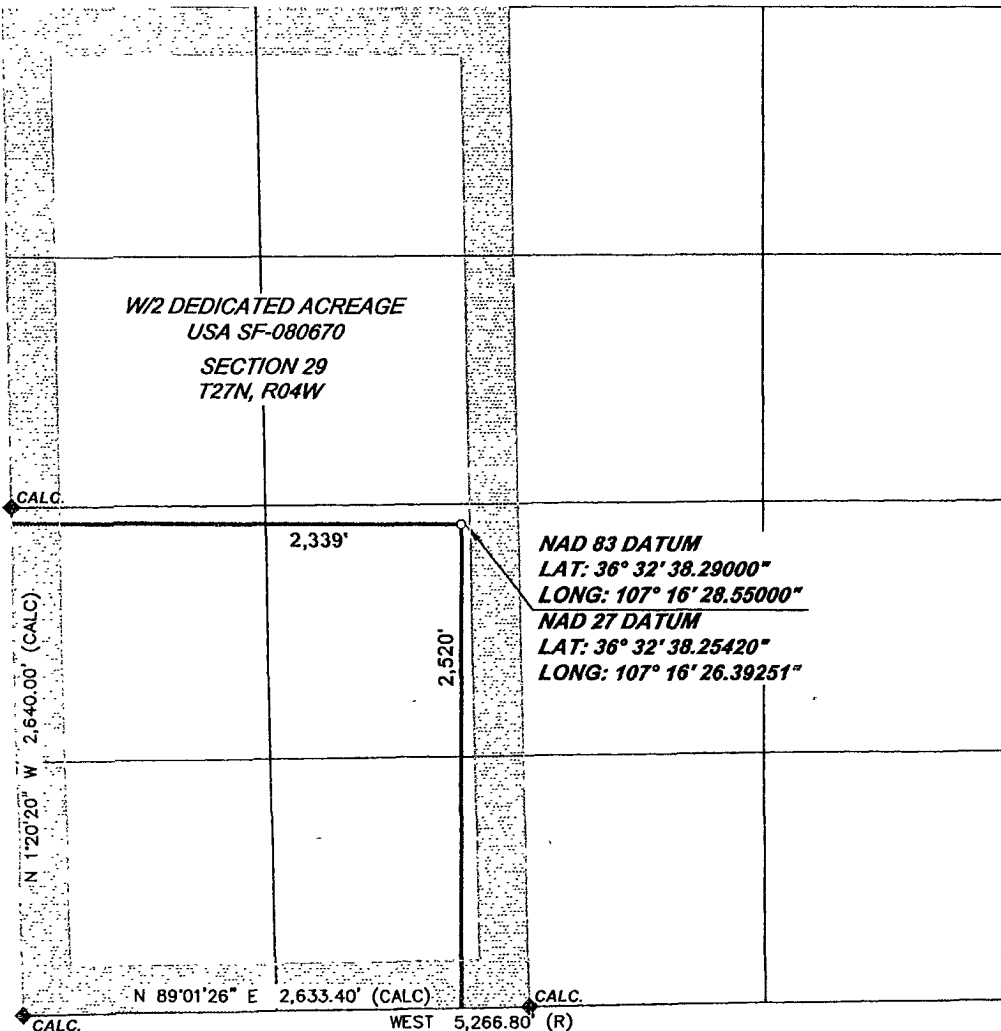
<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

<sup>12</sup> Dedicated Acres 320.0	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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

16

<sup>17</sup> 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.

*Amanda Sanchez*  
Signature

Amanda Sanchez

Printed Name

Regulatory Analyst

Title and E-mail Address

6-13-06

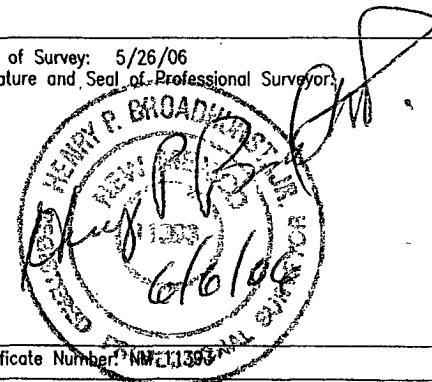
Date

<sup>18</sup> 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

Date of Survey: 5/26/06

Signature and Seal of Professional Surveyor:



Certificate Number: NM 11393

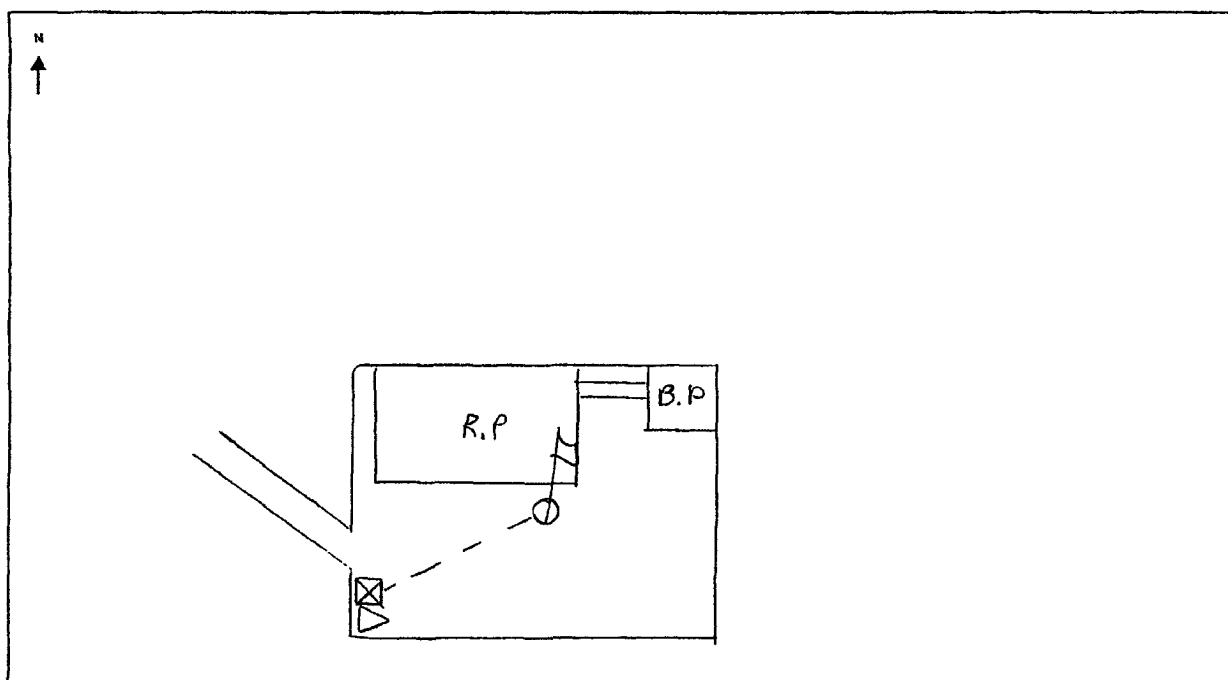


TECHNICAL SERVICES  
A CORROSION COMPANY

## CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME ST 27-4 #52E LEGALS K-29-27-4 COUNTY Rio Arriba

PURPOSED C.P. SYSYTEM: Drill GB and set solar on southwest corner of location. Trench  
approx 225' of #8 neg cable from solar to wellhead



EXISTING WELLHEAD	METER HOUSE	G.B.	POWER SOURCE	CABLE	NEW WELL	OVERHEAD A.C.

COMMENTS: \_\_\_\_\_

NEAREST POWER SOURCE N/A DISTANCE: \_\_\_\_\_

PIPELINES IN AREA: N/A

TECHNICIAN: Michael Hingore DATE: 11/2/06

6 CR 5412 BLOOMFIELD, N.M. 87413  
OFFICE: 505-634-0271 CELL: 505-793-6953

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 52E

DEVELOPMENT

Lease:		AFE #: WAN.ZA2.6964		AFE \$: 703,337.36	
Field Name: hBR_SAN JUAN 27-4 UNIT		Rig: XX 2008 27N		State: NM	County: RIO ARRIBA
Geologist:		Phone:		Geophysicist:	
Geoscientist: Head, Chip F		Phone: 505-326-9772		Prod. Engineer:	
Res. Engineer: Prabowo, Wahyu		Phone: 832-486-2275		Proj. Field Lead:	

Primary Objective (Zones):	
Zone	Zone Name
R20076	DAKOTA(R20076)

Location: Surface		Datum Code: NAD 27		Straight Hole	
Latitude: 36.543960	Longitude: -107.273997	X:	Y:	Section: 29	Range: 004W
Footage X: 2339 FWL	Footage Y: 2520 FSL	Elevation: 7220	(FT)	Township: 027N	
Tolerance:					

Location Type: Summer Only	Start Date (Est.):	Completion Date:	Date In Operation:
Formation Data: Assume KB = 7232 Units = FT			

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	216	7016	<input type="checkbox"/>			12-1/4 hole. 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 171 cuft. Circulate cement to surface.
OJO ALAMO	3592	3640	<input type="checkbox"/>			
KIRTLAND	3704	3528	<input type="checkbox"/>			
FRUITLAND COAL	3892	3340	<input type="checkbox"/>			Possible Gas
PICTURED CLIFFS	4057	3175	<input type="checkbox"/>			
LEWIS	4190	3042	<input type="checkbox"/>			
Intermediate Casing	4290	2942	<input type="checkbox"/>			8 3/4" Hole. 7", 20/23 ppf, J-55, STC/LTC Casing. Cement with 966 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	4555	2677	<input type="checkbox"/>			
CHACRA	5027	2205	<input type="checkbox"/>			
MASSIVE CLIFF HOUSE	5762	1470	<input type="checkbox"/>	800		Gas
MENEFEE	5865	1367	<input type="checkbox"/>			Gas
MASSIVE POINT LOOKOUT	6250	982	<input type="checkbox"/>			Gas
MANCOS	6734	498	<input type="checkbox"/>			
UPPER GALLUP	7377	-145	<input type="checkbox"/>			
GREENHORN	8188	-956	<input type="checkbox"/>	1600		
GRANEROS	8247	-1015	<input type="checkbox"/>			
TWO WELLS	8270	-1038	<input type="checkbox"/>			Gas
UPPER CUBERO	8400	-1168	<input type="checkbox"/>			Gas
LOWER CUBERO	8437	-1205	<input type="checkbox"/>			Gas
OAK CANYON	8499	-1267	<input type="checkbox"/>			Gas Estimated bottom perf ~ 8494'
TOTAL DEPTH DK	8519	-1287	<input type="checkbox"/>	1900		6-1/4" Hole. 4-1/2", 10.5/11.6 ppf, J-55 STC/LTC casing. Cement with 576 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:		
Reference Type	Well Name	Comments
Production	SJ 27-4 Unit 51	NE29-27N-04W
Production	SJ 27-4 Unit 52M	NW29-27N-04W

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 52E

DEVELOPMENT

<b>Logging Program:</b>			
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
GR/CBL							

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

Comments: Zones - DK 27N04W29SW2

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

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**SAN JUAN 27-4 UNIT 52E**

**2,520' FSL, 2,330' FWL**

**SECTION 29, T27N, R04W, N.M.P.M.,**

**RIO ARRIBA, NEW MEXICO**

**ELEV. 7,219.6' NADV88**

**DRIVING DIRECTIONS: 14.9 MILES FROM HWY 64, CROSS CEREZA WASH AND TURN RIGHT AT PONDS AND FOREST ROAD (FR) 357 SIGN: START MILEAGE AT ZERO MILES HERE.**

- **AT 1.0 MILES CROSS CATTLE GUARD AND STAY RIGHT,**
- **AT 1.8 MILES STAY LEFT AT FR 357 SIGN, NOW ENTERING JARAMILLO CANYON,**
- **AT 2.0 MILES CROSS CATTLE GUARD AND SECTION LINE FENCE,**
- **AT 4.4 MILES BEGIN TO CLIMB OUT OF CANYON,**
- **AT 5.0 MILES TOP OF CANYON AT FR 357 SIGN,**
- **AT 5.5 MILES FR 316 SIGN,**
- **AT 6.1 MILES STAY LEFT,**
- **AT 6.3 MILES LOCKED GATE,**
- **AT 6.6 MILES STAY LEFT,**
- **AT 7.1 MILES STAY LEFT,**
- **AT 7.3 MILES STAY RIGHT,**
- **AT 7.4 MILES ENTER WELL PAD AND STAY LEFT THRU PAD,**
- **AT 7.8 MILES STAY RIGHT, NOTE " DITCH GRADING PROHIBITED" SIGN,**
- **AT 7.9 MILES STAY RIGHT,**
- **AT 8.1 MILES TURN LEFT AT -Y- IN ROAD, AT 8.3 MILES STOP, YOU ARE AT ACCESS AND PIPELINE SURVEY TO 27-4 # 52E. APPROX. 400' SOUTHERLY TO NEW WELL SITE.**