

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

NOV 12 2008

Bureau of Land Management
Farmington Field Office

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

NOV 14 2008
BLM DIV.
DIST. 3

1a. Type of Work DRILL	5. Lease Number USA SF- 080670 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 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 #46G	
4. Location of Well Surf: Unit A (NENE), 1270' FNL & 485' FEL Bottom: Unit B (NWNE), 1050' FNL & 1640' FEL Surf: Latitude 36.533721 N. Longitude 107.284140 W. Surf: Latitude 36.534503 N Longitude 107.287904 W.	10. Field, Pool, Wildcat Basin Dakota 11. Sec., Twn, Rge, Mer. (NMPM) A Sec. 31, T27N, R4W API # 30-039- 30587	
14. Distance in Miles from Nearest Town 45 miles/Bloomfield	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1640'	17. Acres Assigned to Well 321.160 (N/2)	
16. Acres in Lease 2564.720	18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 276' from San Jaun 27-4 Unit 90	
19. Proposed Depth 8067'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6814' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Jamie Goodwin</u> Jamie Goodwin (Regulatory Technician)	<u>11/7/08</u> Date	

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 4

Bond Numbers NMB-000015 and NMB-080089

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".

JAN 14 2009

NMOCD

Hold C104

for Directional Survey
and "As Drilled" plat

NOTIFY AZTEC OGD 24 HRS
PRIOR TO CASING & CEMENT

ACCEPTANCE OF THIS
ACTION DOES NOT RELIEVE THE LESSEE AND
OPERATOR FROM OBTAINING ANY OTHER
AUTHORIZATION REQUIRED FOR OPERATIONS
ON FEDERAL AND INDIAN LANDS

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 - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

¹ API Number 30-039-30587	² Pool Code 71599	³ Pool Name BASIN DAKOTA
⁴ Property Code 7452	⁵ Property Name SAN JUAN 27-4 UNIT	
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP	⁶ Well Number 46G
		⁹ Elevation 6814

¹⁰ SURFACE LOCATION

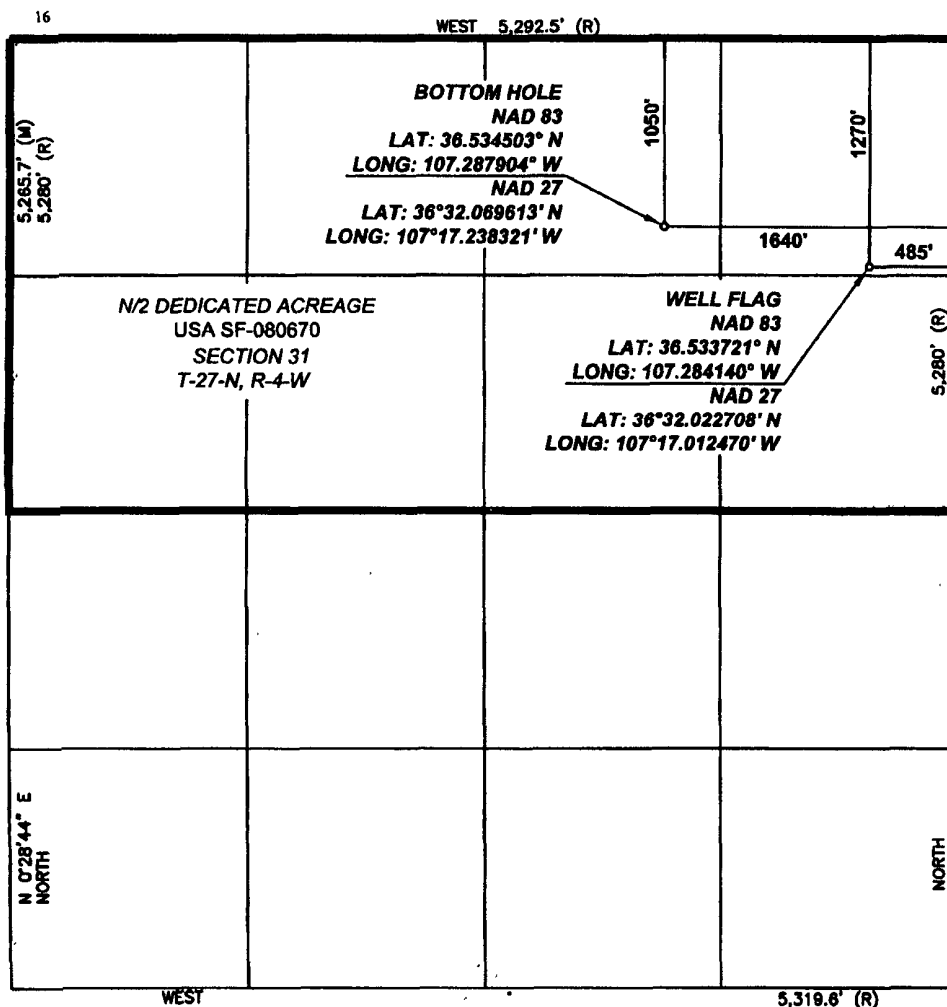
UL or lot no. A	Section 31	Township 27-N	Range 4-W	Lot Idn	Feet from the 1270	North/South line NORTH	Feet from the 485	East/West line EAST	County RIO ARRIBA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. B	Section 31	Township 27-N	Range 4-W	Lot Idn	Feet from the 1050	North/South line NORTH	Feet from the 1640	East/West line EAST	County RIO ARRIBA
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¹² Dedicated Acres 321.160	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.

James Gardenhire
Signature

James Gardenhire
Printed Name

Regulatory Technician
Title and E-mail Address

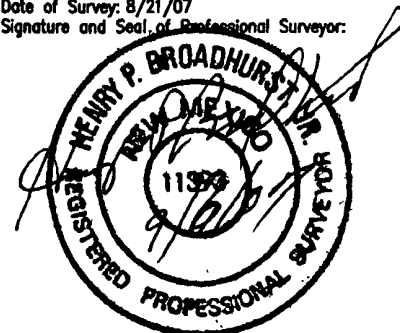
11/07/08
Date

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.

Date of Survey: 8/21/07

Signature and Seal of Professional Surveyor:



Certificate Number: NM 11393

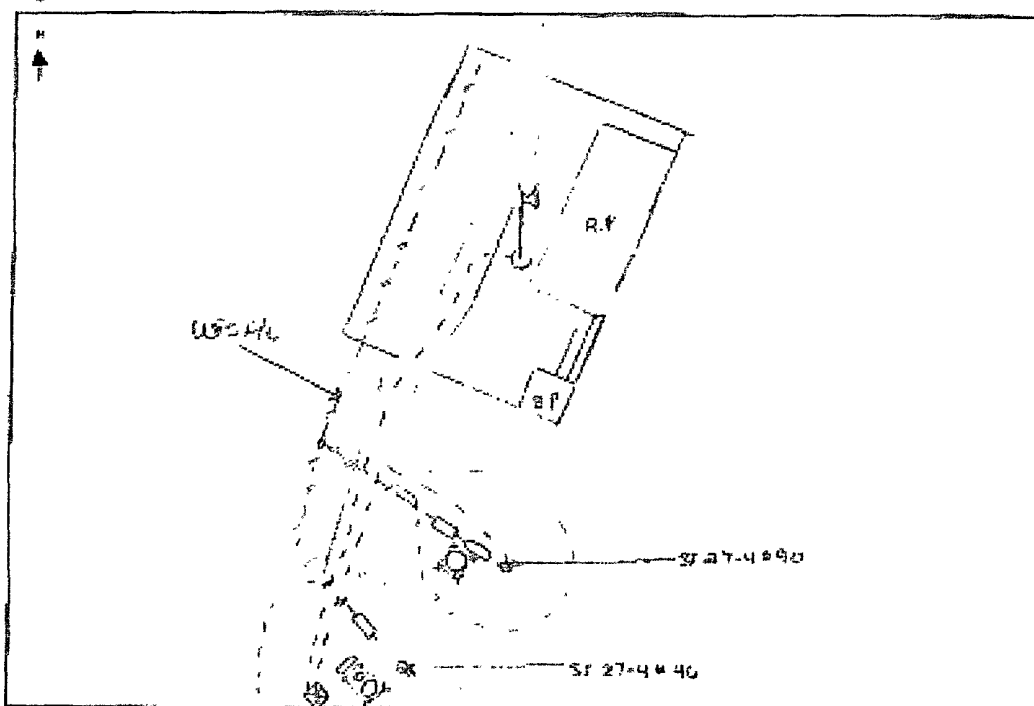


TECHNICAL SERVICES
A CORROSION COMPANY

CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME ST 27-4 # 406 LEGAL B4-31-27-04 COUNTY Pinellas

PURPOSED C.P. SYSTEM: Regrade existing cathodic protection system on ST 27-4 # 406
to include 150' of pipe from proposed well to existing structure. See also #406 & 407
if needed



WELL HEAD	WELL HEAD	WELL HEAD	WELL HEAD	WELL HEAD	WELL HEAD	WELL HEAD

COMMENTS: 4 well zone

NEAREST POWER SOURCE NA DISTANCE: _____
PIPELINES IN AREA: 112-9 P/L

TECHNICIAN: A. J. [Signature] DATE: 11/9/07

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

AS

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 46G

DEVELOPMENT

Lease:		AFE #: WAN.ZA2.7182		AFE \$: 981,472.24	
Field Name: hBR_SAN JUAN 27-4 UNIT		Rig: H&P Rig 283		State: NM	County: RIO ARRIBA
Geologist:		Phone:		Geophysicist:	
Geoscientist:		Phone:		Prod. Engineer:	
Res. Engineer: Prabowo, Wahyu		Phone: +1-505-326-9797		Proj. Field Lead:	
Primary Objective (Zones):					
Zone	Zone Name				
R20076	DAKOTA(R20076)				

Location: Surface		Datum Code: NAD 27		Deviated:	
Latitude: 36.533711	Longitude: -107.283541	X:	Y:	Section: 31	Range: 004W
Footage X: 485 FEL	Footage Y: 1270 FNL	Elevation: 6814	(FT)	Township: 027N	
Tolerance:					

Location: Bentonite		Datum Code: NAD 27		Deviated:	
Latitude: 36.534413	Longitude: -107.287444	X:	Y:	Section: 31	Range: 004W
Footage X: 1640 FEL	Footage Y: 1050 FNL	Elevation:	(FT)	Township: 027N	
Tolerance:					

Location Type: Restricted	Start Date (Est.): 1/1/2009	Completion Date:	Date In Operation:
Formation Data: Assume KB = 6834 Units = FT			

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
SURFACE CSG	322	6512	☐			12-1/4" hole. 8-5/8" 24 ppf, STC Casing. Cement with 312 cuft. Circulate cement to surface.
OJO ALAMO	3110	3724	☐			on strike and flat to 27-4 #4
KIRTLAND	3258	3576	☐			Upper formations thru the Point Lookout
FRUITLAND	3331	3503	☐			
PICTURED CLIFFS	3624	3210	☐			
LEWIS	3791	3043	☐			
HUERFANITO BENTONITE	4131	2703	☐			
CHACRA	4597	2237	☐			
UPPER CLIFF HOUSE	5236	1598	☐			
MASSIVE CLIFF HOUSE	5309	1525	☐			
MENEFEE	5432	1402	☐			
MASSIVE POINT LOOKOUT	5782	1052	☐			
MANCOS	6359	475	☐			5' deep to 27-4 #46
UPPER GALLUP	6943	-109	☐			
GREENHORN	7739	-905	☐			
GRANEROS	7801	-967	☐			
TWO WELLS	7821	-987	☐			
UPPER CUBERO	7957	-1123	☐			
LOWER CUBERO	7994	-1160	☐			
OAK CANYON	8042	-1208	☐			
ENCINAL	8067	-1233	☐			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 46G

DEVELOPMENT

TD	8067	-1233	☐	2000	TD at T/Encinal. 7-7/8" hole, 4-1/2", 10.5/11.6 ppf, J-55 STC/LTC casing. Cement with 2464 cu ft. Circulate cement a minimum of 100' inside the previous casing string.
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Reference Wells:		
Reference Type	Well Name	Comments
Intermediate	SJ 27-4 Unit 46	SENE 31-27n-04w
Intermediate	SJ 27-4 Unit 4	NE 31-27n-04w

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

TD Logs:	☐ Triple Combo	☐ Dipmeter	☐ RFT	☐ Sonic	☐ VSP	☐ TDT	☒ Other
GR/CBL, Mudlogger 100' above GRHN to TD							

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

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 27-4 #46G
Company:	ConocoPhillips Lower 48	TVD Reference:	WELL @ 6831 0ft (Original Well Elev)
Project:	San Juan Basin	MD Reference:	WELL @ 6831 0ft (Original Well Elev)
Site:	Monty's Site for directional MV/DK wells	North Reference:	True
Well:	SJ 27-4 #46G	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 27-4 #46G		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (d)	Dip Direction (d)	
3,108.0	3,108.0	Ojo Alamo		0.00		
3,256.0	3,256.0	Kirtland		0.00		
3,329.0	3,329.0	Fruitland		0.00		
3,622.0	3,622.0	Pictured Cliffs		0.00		
3,789.0	3,789.0	Lewis		0.00		
4,129.0	4,129.0	Huerf Bent		0.00		
4,595.0	4,595.0	Chacra		0.00		
5,253.4	5,234.0	Upper Cliffhouse		0.00		
5,332.2	5,307.0	Mass Cliffhouse		0.00		
5,464.9	5,430.0	Menefee		0.00		
5,842.7	5,780.0	Pt Lookout		0.00		
6,465.6	6,357.0	Mancos Shale		0.00		
7,096.0	6,941.0	Gallup		0.00		
7,940.7	7,737.0	Greenhorn		0.00		
8,003.5	7,799.0	Graneros		0.00		
8,023.7	7,819.0	Two Wells		0.00		
8,160.3	7,955.0	Upper Cubero		0.00		
8,197.3	7,992.0	Lower Cubero		0.00		
8,245.3	8,040.0	Oak Canyon		0.00		
8,270.3	8,065.0	Encinal		0.00		
8,270.3	8,065.0	TD		0.00		

BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 27-4 UNIT #46G

1270' FNL, 485' FEL

SECTION 31, T-27-N, R-4-W, N.M.P.M.,

RIO ARriba COUNTY, NEW MEXICO

NAD 83 LAT.: 36.533721° N LONG.: 107.284140° W

ELEV.: 6814 NAVD88

NO NEW ACCESS ROAD

DRIVING DIRECTIONS FROM BLOOMFIELD N.M. AT INTERSECTION HWY 550 AND 64. TRAVEL EAST ON HWY 64 TO MILE MARKER 96.3, TURN RIGHT (SOUTHEAST).

- STAY ON MAIN ROAD AND TURN LEFT AT 3.4 MILES, CONTINUE ON MAIN ROAD.
- COME TO AN INTERSECTION AT 6.7 MILES (FROM HWY) TURN RIGHT AND START HEADING SOUTH TOWARDS SANTOS PEAK.
- GO 7.75 MILES TO INTERSECTION, TURN RIGHT (SOUTH) AT INTERSECTION.
- CROSS CARRIZO CANYON WASH AND CONTINUE TO FOUR WAY INTERSECTION AT 1.2 MILES TURN LEFT (SOUTHEASTERLY) ON FR 357 AND HEAD TOWARDS JARMILLO CANYON.
- GO 3.5 MILES ON FR 357 AND TURN RIGHT (SOUTH).
- GO 0.25 MILES TO SAN JUAN 27-4 UNIT #46G WELL LOCATION.