

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

NOV 12 2008

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BLM
OIL & GAS DIV.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number USA SF- 080671-A 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 MV - NMNM78408A 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 #28C	
4. Location of Well Surf: Unit C (NENW), 910' FNL & 1870' FWL Bottom: K (NESW), 2590' FSL & 1780' FWL Surf: Latitude 36.592318 N. Longitude 107.223494 W. Bottom: Latitude 36.587506 N. Longitude 107.223742 W.	10. Field, Pool, Wildcat Blanco Mesaverde 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 11, T27N, R4W API # 30-039- 30589	
14. Distance in Miles from Nearest Town 62.1 miles/Bloomfield, NM	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1780'		
16. Acres in Lease 1280.080	17. Acres Assigned to Well MV 320.00 (W/2)	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 56' from San Jaun 27-4 Unit 28A		
19. Proposed Depth 6740' This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 7156' GL	22. Approx. Date Work will Start DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Jamie Goodwin</u> Jamie Goodwin (Regulatory Technician)	<u>11/10/08</u> Date	

PERMIT NO. APPROVAL DATE
APPROVED BY [Signature] TITLE ATM DATE 11/12/09

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

Hold C104
for Directional Survey
and "As Drilled" plat

NMOCD

JAN 14 2009

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30589	² Pool Code 72319	³ Pool Name Blanco-MESAVERDE
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 28C
		⁹ Elevation 7156

¹⁰ SURFACE LOCATION

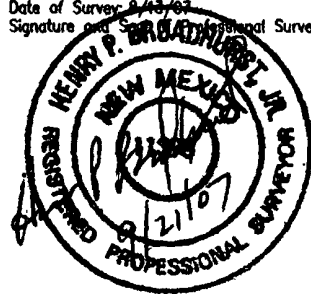
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	11	27-N	4-W		910	NORTH	1870	WEST	RIO ARriba

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
K	11	27-N	4-W		2590	SOUTH	1780	WEST	RIO ARriba

¹² Dedicated Acres 320.00	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

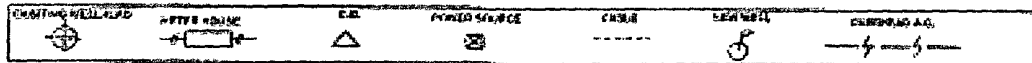
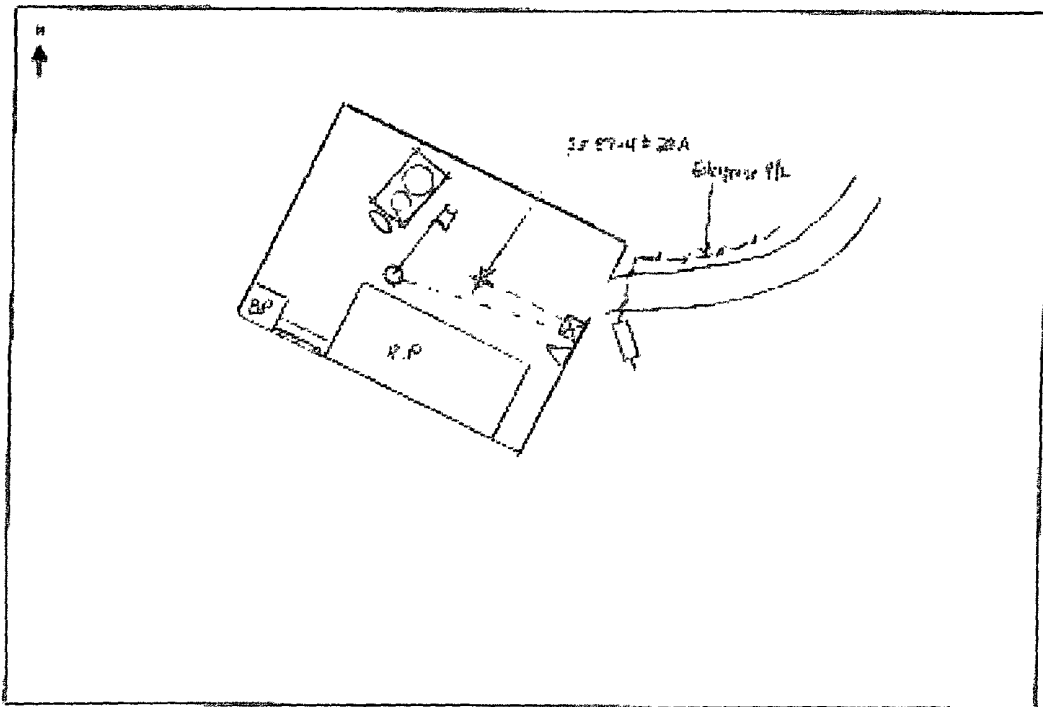
¹⁶ WEST 5280' (R) 1870' 910' W/2 DEDICATED ACREAGE USA SF-080671-A SECTION 11 T27N, R04W	WELL FLAG NAD 83 LAT: 36.592318° N LONG: 107.223494° W NAD 27 LAT: 36° 35.538531' N LONG: 107° 13.373760' W	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to 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.  Signature James Gardenhire Printed Name Regulatory Technician Title and E-mail Address 11/07/08 Date
	BOTTOM HOLE NAD 83 LAT: 36.587506° N LONG: 107.223742° W NAD 27 LAT: 36° 35.249816' N LONG: 107° 13.388657' W	
1780' 2590' NORTH		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: 9/13/07 Signature and Seal of Registered Professional Surveyor:  Certificate Number: NM 11393



CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME ST 27-4 #28A LEGALS C-11-27-4 COUNTY San Antonio

PURPOSED C.P. SYSTEM: Drill AB and ~~3~~ well slots on NE edge of 1st irrigation S side of prop. road. Touch wires. Tie to AB on horn #28A to make touch system 100% effective. Connect proposed #28A to make.



COMMENTS: _____

NEAREST POWER SOURCE AB DISTANCE: _____

PIPELINES IN AREA: Subsurface. No

TECHNICIAN: Michael J. Hannon DATE: 11/9/07

R.L.

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 28C

DEVELOPMENT

Lease:		AFE #: WAN.ZA2.7576		AFE \$: 972,025.84	
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:	
				Phone:	

Primary Objective (Zones):	
Zone	Zone Name
R20002	MESAVERDE(R20002)

Location: Surface		Datum Code: NAD 27		Straight Hole	
Latitude: 36.592308	Longitude: -107.222896	X:	Y:	Section: 11	Range: 004W
Footage X: 1870 FWL	Footage Y: 910 FNL	Elevation: 7156	(FT)	Township: 027N	
Tolerance:					

Location: Bottom Hole		Datum Code: NAD 27		Straight Hole	
Latitude: 36.587496	Longitude: -107.223144	X:	Y:	Section: 11	Range: 004W
Footage X: 1780 FWL	Footage Y: 2590 FSL	Elevation:	(FT)	Township: 027N	
Tolerance:					

Location Type: Restricted	Start Date (Est.): 1/1/2009	Completion Date:	Date In Operation:
Formation Data: Assume KB = 7170 Units = FT			

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
SURFACE CSG	320	6850	☐			12-1/4" hole. 9-5/8", 32.3 ppf, H-40, STC casing. Cement with 244 cubic ft. Circulate cement to surface.
OJO ALAMO	3545	3625	☐			Possible water flows.
KIRTLAND	3655	3515	☐			
FRLD	3760	3410	☐			Possible gas.
PICTURED CLIFFS	4044	3126	☐			
LEWIS	4224	2946	☐			
HUERFANITO BENTONITE	4628	2542	☐			
CHACRA	5024	2146	☐			
Intermediate Casing	5100	2070	☐			8-3/4" hole. 7", 23 ppf, L-80, LTC casing. Cement with 1227 cubic ft. Circulate cement to surface.
UPPER CLIFF HOUSE	5584	1586	☐			
MASSIVE CLIFF HOUSE	5779	1391	☐			
MENEFEE	5910	1260	☐			
MASSIVE POINT LOOKOUT	6195	975	☐	920		PointLookout 10' up dip to 27-4#28, NDE for Mancos
TD	6740	430	☐			6-1/4" hole. 4-1/2", 11.6 ppf, L-80, LTC casing. Cement with 230 cubic ft. Circulate cement a minimum of 100' inside previous casing string. Bottom perf +544' on 27-4#33, Est Bottom perf on 28C as +530, TD 100' below lowest PNLK sd

Reference Wells:		
Reference Type	Well Name	Comments
Intermediate	SJ 27-4 28A	NW11-27N-4W
Intermediate	SJ 27-4 Unit 33	SE 11-27n-04w
Intermediate	SJ 27-4 Unit 28	SW 11-27n-04w
Intermediate	SJ 27-4 Unit 140A	SE 10-27n-04w

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 27-4 UNIT 28C

DEVELOPMENT

Logging Program:

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

TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other

GR/CBL

Mudlog from 100' above the Greenhorn to TD - mudlogger will call TD.

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 27-4 #28C
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 7171.0ft (Generic Rig RKB)
Project:	San Juan Basin	MD Reference:	WELL @ 7171.0ft (Generic Rig RKB)
Site:	Russell's Site for Directional MV/DK wells	North Reference:	True
Well:	SJ 27-4 #28C	Survey Calculation Method:	Minimum Curvature
Wellbore:	principal		
Design:	planned		

Targets									
Target Name	hit/miss target	Dip Angle	Dip Dir.	TVD	+N-S	+E-W	Northing	Easting	
Shape		(°)	(°)	(ft)	(ft)	(ft)	(m)	(m)	Latitude Longitude
SJ 27-4 #28C - ICP	- plan hits target	0.00	0 00	5,100.0	-1,751.9	-72.9	619,863.11	207,003.31	36° 35' 14 989 N 107° 13' 23 319 W
- Point									
SJ 27-4 #28C - PCP	- plan hits target	0.00	0 00	6,740.0	-1,751.9	-72.9	619,863.10	207,003.31	36° 35' 14 989 N 107° 13' 23 319 W
- Point									

Casing Points				
Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter
(ft)	(ft)		(in)	(in)
320.0	320.0	9 5/8"	9.625	12.250
5,471.7	5,100.0	7"	7.000	8.750
7,111.7	6,740.0	4 1/2"	4.500	6.250

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
3,803.6	3,545.0	Ojo Alamo		0.00		
3,926.4	3,655.0	Kirtland		0.00		
4,043.7	3,760.0	Fruitland Coal		0.00		
4,360.8	4,044.0	Pictured Cliffs		0.00		
4,561.8	4,224.0	Lewis		0.00		
4,994.8	4,628.0	Huerfano Bentonite		0.00		
5,395.7	5,024.0	Chacara		0.00		
5,955.7	5,584.0	Upper Cliffhouse		0.00		
6,150.7	5,779.0	Massive Cliffhouse		0.00		
6,281.7	5,910.0	Menefee		0.00		
6,566.7	6,195.0	Massive Point Lookout		0.00		

BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 27-4 UNIT 28C

910' FNL, 1870' FWL

SECTION 11, T-27-N, R-4-W, N.M.P.M.,

RIO ARriba COUNTY, NEW MEXICO

NAD 83 LAT.: 36.592318° N LONG.: 107.223494° W

ELEV. 7156 NAVD88

DRIVING DIRECTIONS FROM BLANCO, N.M.

- HEAD EAST ON HWY 64, TURN RIGHT (SOUTHEAST) AT MILE POST 96.3
- STAY ON MAIN ROAD AND TURN LEFT AT 3.4 MILES
- CONTINUE ON MAIN ROAD. TO AN INTERSECTION 6.7 MILES FROM HWY 64
- TURN RIGHT AND START HEADING SOUTH TOWARDS SANTOS PEAK
- GO 18.4 MILES (CONTINUE) FROM HWY TO FOREST CATTLEGUARD.
- CONTINUE ON MAIN ROAD FOR 1.5 MILES TO INTERSECTION FR 314A
- TURN LEFT (NORTHEAST) ON FR 314 AND GO 5.2 MILES TO INTERSECTION.
- TURN (WEST) LEFT PM FR 314A AND GO 1.0 MILES TO INTERSECTION.
- TURN (SOUTHWEST) LEFT AND GO 0.5 MILES TO INTERSECTION
- TURN RIGHT (SOUTH) AND GO 1.9 MILES TO EXISTING ACCESS ROAD FOR SAN JUAN 27-4 UNIT 28A AND PROPOSED SAN JUAN 27-4 UNIT #28C.