

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

David R. Catanach Division Director
Oil Conservation Division



New Mexico Oil Conservation Division approval and conditions listed below are made in accordance with OCD Rule 19.15.7.11 and are in addition to the actions approved by BLM on the following 3160-3 APD form.

Operator Signature Date: 6-27-14

Well information;

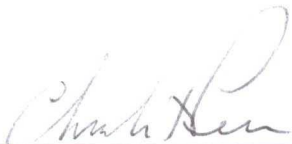
Operator Burlington, Well Name and Number San Juan 28.5 Unit #85N

API# 30-039-31249, Section 8, Township 28 N/S, Range 5 E/W

Conditions of Approval:

(See the below checked and handwritten conditions)

- ☒ Notify Aztec OCD 24hrs prior to casing & cement.
 - ☐ Hold C-104 for directional survey & "As Drilled" Plat
- ☒ Hold C-104 for NSL, NSP, DHC
 - ☐ Spacing rule violation. Operator must follow up with change of status notification on other well to be shut in or abandoned
 - ☐ Regarding the use of a pit, closed loop system or below grade tank, the operator must comply with the following as applicable:
 - A pit requires a complete C-144 be submitted and approved prior to the construction or use of the pit, pursuant to 19.15.17.8.A
 - A closed loop system requires notification prior to use, pursuant to 19.15.17.9.A
 - A below grade tank requires a registration be filed prior to the construction or use of the below grade tank, pursuant to 19.15.17.8.C
- ☐ Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
- ☒ Regarding Hydraulic Fracturing, review EPA Underground Injection Control Guidance 84
- ☒ Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.
- ☒ Well-bore communication is regulated under 19.15.29 NMAC. This requires well-bore Communication to be reported in accordance with 19.15.29.8.


NMOCD Approved by Signature

9-11-2015
Date KC

SEP 03 2015

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2014

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work ☒ DRILL ☐ RE-ENTER
b. Type of Well: ☐ Oil Well ☒ Gas Well

Other: _____

2. Name of Operator
Burlington Resources Oil & Gas Company

3. Address: **PO Box 4289, Farmington, NM 87499**
3a. Phone No. (include area code) **(505) 326-9700**

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface **UL N (SESW), 391' FSL & 1626' FWL,**
Latitude **36.6695444° N**
Longitude **107.3859687° W**
At BHL **n/a**
Latitude
Longitude

5. Lease Serial
NM-010516

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
SAN JUAN 28-5 UNIT

8. Lease Name and Well No.
San Juan 28-5 Unit 85N

9. API Well No.
30-039-31249

10. Field and Pool or Exploratory
Blanco MV / Basin DK

11. Sec., T., R., M., on Block and Survey or Area
Suf: **Sec. 8, T28N, R5W**
BHL: **n/a**

12. County or Parish **Rio Arriba**
13. State **New Mexico**

14. Distance in miles from Nearest Town
38 miles from Bloomfield, NM

15. Distance from Proposed Location to
Nearest Property or Lease Line: **391'**

16. Acres in Lease
565.8

17. Acres Assigned to Well:
282.84 MV see plat
313.42 DK see plat

18. Distance from Proposed Location to Nearest Well,
Drlg, Compl, or Applied for on this lease
1272' from SJ 28-5 Unit 7 (MV)

19. Proposed Depth
7939'

20. Rotary or Cable Tools
Rotary

21. Elevations (DF, FT, GR, Etc.)
6575'

22. Approx. Date Work will Start

23. Proposed Casing and Cementing Program
See Operations Plan attached

24. Authorized by: Patsy Clugston
Patsy Clugston (Staff Regulatory Tech)

6/27/14
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.

A gas recovery unit may or may not be used on this location.

Example Master Plan Type **3**

Bond Numbers **NMB-000015 and NMB-000089**

NMOCDAV

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

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

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

DISTRICT I

1625 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II

811 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III

1000 Rio Brazos Rd., Aztec, N.M. 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, N.M. 87505
Phone: (505) 476-3480 Fax: (505) 476-3482

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, N.M. 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

JUN 27 2014

Farmington Field Office
Bureau of Land Management

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-31249	² Pool Code 72319 / 71599	³ Pool Name BLANCO MESA VERDE / BASIN DAKOTA
⁴ Property Code 7460	⁵ Property Name SAN JUAN 28-5 UNIT	⁶ Well Number 85N
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6575

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
N	8	28 N	5 W		391	SOUTH	1626	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

¹² Dedicated Acres

282.84 (MV)

113.42 (DK)

MV - Sec. 8-Lots 1,2,3,4&S2 of SE/4 & SE of SW/4

DK-Sec-Lots 1,2,3,4&S2 of SE/4 & SE of SW/4 +Sec. 9 Lot 4 & SW of SW/4

¹³ Joint or Infill¹⁴ Consolidation Code¹⁵ Order No.

R-2948

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

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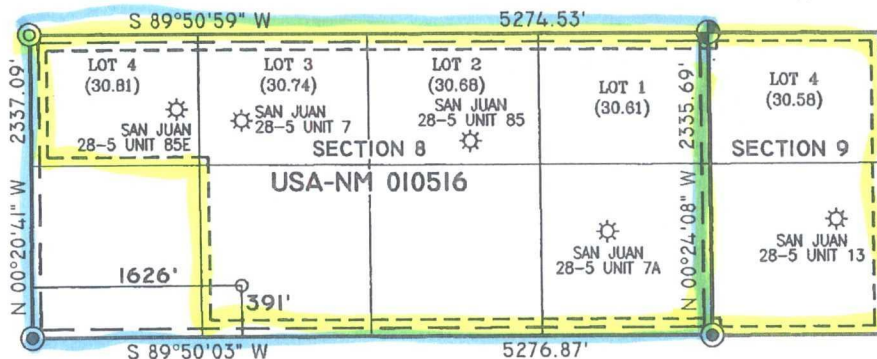
LEGEND:

- = SURFACE LOCATION
- ⊙ = FOUND 1914 U.S.G.L.O. BRASS CAP (CC)
- ⊙ = FOUND 1914 U.S.G.L.O. BRASS CAP
- ⊙ = CORNER POSITION PROJECTED FROM WITNESS CORNER (CC)
- ⊙ = EXISTING WELL

BEARINGS & DISTANCES SHOWN
ARE REFERENCED TO THE
NEW MEXICO COORDINATE
SYSTEM, WEST ZONE, NAD 83,
UNLESS OTHERWISE NOTED.

G.N.=GRID NORTH
T.N.=TRUE NORTH
CONVERGENCE AT
SURFACE LOCATION

00°16'02"



LAT: 36.6695444° N
LONG: 107.3859687° W
NAD 83
LAT: 36°40.17218' N
LONG: 107°23.12199' W
NAD 27

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: Patsy Clugston
Date: 3/20/14

Printed Name

Patsy.L.Clugsto@conocophillips.com

E-mail Address

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.

02/13/14

Date of Survey

Signature and Seal of Professional Surveyor:

17078
Certificate Number



PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-5 UNIT 85N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.3047				AFE \$:	
Field Name: SAN JUAN		Rig: 2016 Rig Program		State: NM	County: RIO ARRIBA		API #:
Geologist:	Phone:	Geophysicist:		Phone:			
Geoscientist:	Phone:	Prod. Engineer:		Phone:			
Res. Engineer:	Phone:	Proj. Field Lead:		Phone:			
Primary Objective (Zones):							
Zone	Zone Name						
RON	BLANCO MESAVERDE (PRORATED GAS)						
FRR	BASIN DAKOTA (PRORATED GAS)						
Location: Surface		Datum Code: NAD 27				Straight Hole	
Latitude: 36.669536	Longitude: -107.385366	X:	Y:	Section: 08	Range: 005W		
Footage X: 1626 FWL	Footage Y: 391 FSL	Elevation: 6575	(FT)	Township: 028N			
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2016		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6590 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
SAN JOSE	0	6590		<input type="checkbox"/>			Surface geology
Surface Casing	200	6390		<input type="checkbox"/>			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 112 cuft. Circulate cement to surface.
NACIMIENTO	1446	5144		<input type="checkbox"/>			
OJO ALAMO	2734	3856		<input type="checkbox"/>			
KIRTLAND	2904	3686		<input type="checkbox"/>			
FRUITLAND	3053	3537		<input type="checkbox"/>			Possible Gas
PICTURED CLIFFS	3473	3117		<input type="checkbox"/>			
LEWIS	3603	2987		<input type="checkbox"/>			
Intermediate Casing	3753	2837		<input type="checkbox"/>			8 3/4" Hole. 7", 23/20 ppf, J-55, LTC/STC Casing. Cement with 846 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	4221	2369		<input type="checkbox"/>			
CHACRA	4464	2126		<input type="checkbox"/>			
UPPER CLIFF HOUSE	5063	1527		<input type="checkbox"/>			Gas
MASSIVE CLIFF HOUSE	5268	1322		<input type="checkbox"/>	587		Gas
MENEFEE	5356	1234		<input type="checkbox"/>			
POINT LOOKOUT	5663	927		<input type="checkbox"/>			
MANCOS	6116	474		<input type="checkbox"/>			
UPPER GALLUP	6879	-289		<input type="checkbox"/>			
GREENHORN	7628	-1038		<input type="checkbox"/>			
GRANEROS	7685	-1095		<input type="checkbox"/>			
TWO WELLS	7736	-1146		<input type="checkbox"/>	2056		Gas
UPPER CUBERO	7810	-1220		<input type="checkbox"/>			
LOWER CUBERO	7857	-1267		<input type="checkbox"/>			
ENCINAL	7939	-1349		<input type="checkbox"/>			TD at the top of Encinal. Est bottom perf 15' from TD.
Total Depth	7939	-1349		<input type="checkbox"/>	212		6-1/4" hole, 4-1/2" 11.6 ppf, N/L-80, LTC/BTC casing. Cement w/ 549 cuft. Circulate cement a minimum of 100' inside the previous casing string.

surfacing material is required, it will be obtained from existing permitted or private sources and will be hauled in by trucks over existing Resource roads to the area.

F. For well pad cut and fill see Sheet F.

G. As determined during the onsite on 4-9-14, the following best management practices will be implemented:

1. Will make road improvements from access takeoff to General American Road.
2. Drainage and Ditch design: above 5' cut slope and around well pad. Water will be diverted around the pad upon interim reclamation.
3. Will use Low Profile Equipment
4. Will paid equipment Juniper Green

H. Construction equipment may include chain saws, a brush hog, scraper, maintainer, excavator, hydraulic mulcher, chippers and dozer. Construction of the resource road and well pad will take approximately 2 to 4 weeks.

I. The resource road and well pad is on-lease so no additional ROW will be required.

J. Construction contractors will call New Mexico One-Call (or equivalent) to identify the location of any marked or unmarked pipeline or cables located in proximity to the proposed resource road and well pad at least two working days prior to ground disturbance.

K. All operations will be conducted in such a manner that full compliance is made with the applicable laws and regulations, the Application for Permit to Drill, and applicable Notice(s) to Lessees.

VII. Methods for Handling Waste

A. Cuttings, Drilling Fluids, and Flowback Water - The drill cuttings, drill water and completion fluids will be placed in a lined reserve pit. The pit will be lined with 20m gage pit liner. The reserve pit will be fenced on three sides away from the pad during drilling and the fourth side fenced as soon as the rig moves out. The free fluids will be

BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 28-5 UNIT 85N

391' FSL & 1626' FWL

LATITUDE: 36.6695444° N

LONGITUDE: 107.3859687° W

NAD 83

SECTION 8, T-28-N, R-5-W, N.M.P.M.

RIO ARriba COUNTY, NEW MEXICO

FROM THE INTERSECTION OF U.S. HIGHWAY 64 AND U.S. HIGHWAY 550 IN
BLOOMFIELD, NEW MEXICO.

TRAVEL EASTERLY ON U.S. HIGHWAY 64 FOR 36.3 MILES.

TURN RIGHT ONTO GENERAL AMERICAN ROAD (C.R. 366)

AND TRAVEL SOUTHERLY 1.1 MILES.

BEAR LEFT THROUGH "4-WAY" INTERSECTION,

AND TRAVEL SOUTHEASTERLY FOR 0.2 MILE,

TURN RIGHT AT "Y" INTERSECTION,

TRAVEL SOUTHERLY 0.2 MILE,

ENTERING EXISTING SAN JUAN 28-5 UNIT 7 WELL LOCATION AND REACHING
PROPOSED ACCESS ROAD TO SAN JUAN 28-5 UNIT 85N WELL LOCATION.