

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number NM-029146 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
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name San Juan 9. Well Number 20S
4. Location of Well Surf: Unit K(NESW), 1880' FSL & 1840' FWL Bottomhole: Unit K(NESW), 2460' FSL & 1820' FWL Surf: Latitude: 36.680601° N (NAD83) Longitude: 107.754391° W Bottomhole: Latitude: 36.682196° N (NAD83) Longitude: 107.754343° W	10. Field, Pool, Wildcat Basin Fruitland Coal 11. Sec., Twn, Rge, Mer. (NMPM) K Sec. 35, T29N, R9W API # 30-045-34982
14. Distance in Miles from Nearest Town 6 miles/Blanco	12. County San Juan 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 693'	
16. Acres in Lease 626.10	17. Acres Assigned to Well FC 306.10 (W/2)
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 71' from San Juan 20	
19. Proposed Depth 2348'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 5751' GL	22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached	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
24. Authorized by: <u>Crystal Tafoya</u> Crystal Tafoya (Regulatory Technician)	Date <u>5/18/2009</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 2

Bond Numbers NMB-000015 and NMB-000089

NOTIFY AZTEC OGD 24 HRS.
PRIOR TO CASING & CEMENT

Hold C104

for Directional Survey
and "As Drilled" plat

for Directional Survey
and "As Drilled" plat

subject to the attached
"General Requirements".

JUN 10 2009

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

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II
1301 West Grand Avenue, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 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

Bureau of Land Management
Farmington Field Office

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

*API Number 30-045-34982		*Pool Code 71629	*Pool Name BASIN FRUITLAND COAL
*Property Code 7451	*Property Name SAN JUAN		*Well Number 20S
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP		*Elevation 5751'

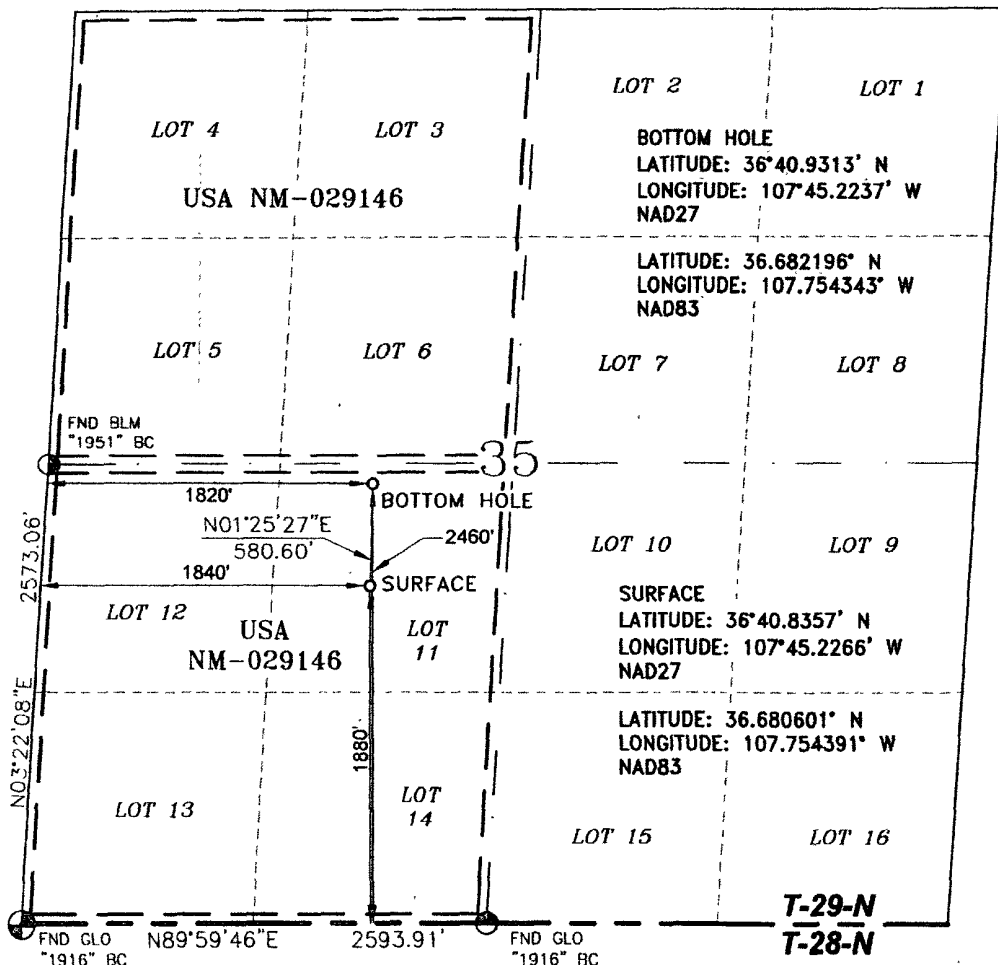
10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	35	29-N	9-W	11	1880	SOUTH	1840	WEST	SAN JUAN

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	35	29-N	9-W	11	2460	SOUTH	1820	WEST	SAN JUAN
Dedicated Acres FC 306.10 ACRES W/2		Joint or Infill		Consolidation Code		Order No.			

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 a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

James Gardenhire 12/08/08
Signature
James Gardenhire
Printed Name

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.

12-3-08
Date of Survey
Signature
GLAY W. RUSSELL
NEW MEXICO
15703
LICENSED PROFESSIONAL SURVEYOR
Certificate Number 15703

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 20S

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8264		AFE \$: 1,059,842.00	
Field Name: hBR_SAN JUAN		Rig: Aztec Rig 580		State: NM	County: SAN JUAN
Geologist:		Phone:		Geophysicist: Phone:	
Geoscientist: Clark, Dave D		Phone: +1 505-326-9762		Prod. Engineer: Phone:	
Res. Engineer: Akwari, Bill N		Phone: +1 505-599-4076		Proj. Field Lead: Phone:	

Primary Objective (Zones):

Zone	Zone Name
JCV	BASIN FRUITLAND COAL (GAS)

Location: Datum Code: NAD 27

Latitude: 36.680594	Longitude: -107.753776	X:	Y:	Section: 35	Range: 009W
Footage X: 1840 FWL	Footage Y: 1880 FSL	Elevation: 5751	(FT)	Township: 029N	

Tolerance:

Location: Datum Code: NAD 27

Latitude: 36.682189	Longitude: -107.753728	X:	Y:	Section: 35	Range: 009W
Footage X: 1820 FWL	Footage Y: 2460 FSL	Elevation:	(FT)	Township: 029N	

Tolerance:

Location Type: Year Round	Start Date (Est.): 1/1/2009	Completion Date:	Date In Operation:
Formation Data: Assume KB = 5763 Units = FT			

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	120	5643	<input type="checkbox"/>			8-3/4 hole. 7" 20 ppf, J-55 STC csg. Cement with 50cuft. Circulate cement to surface.
OJO ALAMO	1043	4720	<input type="checkbox"/>			
KIRTLAND	1215	4548	<input type="checkbox"/>			
FRUITLAND	1811	3952	<input type="checkbox"/>			Gas
PICTURED CLIFFS	2148	3615	<input type="checkbox"/>	300		Gas
Total Depth	2348	3415	<input type="checkbox"/>			6-1/4" hole. 4-1/2" 10.5 ppf, J-55, STC casing. Cement with 382 cuft. Circulate cement to surface.

Reference Wells:

Reference Type	Well Name	Comments
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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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ConocoPhillips or its affiliates

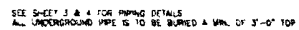
Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well San Juan #20S
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 5762 0ft (Rig KB)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	WELL @ 5762 0ft (Rig KB)
Site:	Other Named Wells	North Reference:	True
Well:	San Juan #20S	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1- APD		
Design:	Plan #1- APD Plan		



Targets										
Target Name	hit/miss target	Dip Angle	Dip Dir	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Shape		(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
San Juan 20S- Top of V		0 00	0 00	1,731 0	580 1	14 2	2,067,579 89	523,342 26	36° 40' 55 878 N	107° 45' 13 422 W
- plan hits target center										
- Point										
San Juan 20S- TD		0 00	0 00	2,348.0	580.1	14 2	2,067,579 89	523,342 26	36° 40' 55 878 N	107° 45' 13.422 W
- plan misses target center by 107.1ft at 2467 9ft MD (2329.4 TVD, 685 6 N, 16 8 E)										
- Point										
San Juan 20S- Top of F		0 00	0 00	1,811.0	580 1	14 2	2,067,579.89	523,342 26	36° 40' 55 878 N	107° 45' 13 422 W
- plan misses target center by 13 9ft at 1939 0ft MD (1808 6 TVD, 593 8 N, 14 5 E)										
- Point										

Casing Points				
Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter
(ft)	(ft)		(")	(")
	2,486 0	Production Shoe	4-1/2	6-1/4
120 0	120 0	Surface Shoe	7	8-3/4

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
1,941 5	1,811 0	Fruitland		0 00		
1,099 5	1,043 0	Ojo Alamo		0 00		
1,303 5	1,215 0	Kirtland		0 00		
2,283 7	2,148 0	Pictured Cliffs		0 00		



SHEET 1 OF 5

								ENGINEERING REVIEW			REFERENCE DRAWINGS			 SAN JUAN BUSINESS UNIT			CONOCO PHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT		
	DISCIPLINE		REVISION		DATE			NO.		DESCRIPTION									
PROCESS																			
MECHANICAL																			
PIPING																			
ELECTRICAL																			
P & I																			
CIVIL/STRUCTURAL																			
PROJECT																			
DESCRIPTION		DATE		BY		CHECK'D		ENG		DRG		PLT		CLIENT NO.		CLIENT APPR.		APPRO. DATE	
																CLIENT NAME		CREATION DATE 6/20/13	
																SHEET NO.		1 OF 5	
																HP3PHASE-REV1			

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Directions from the PO in Blanco, NM

To:

Burlington Resources Oil & Gas Company LP

SAN JUAN 20S

1880' FSL & 1840' FWL,

Section 35, T29N, R9W, N.M.P.M., San Juan County,

New Mexico

Latitude: 36° 40' 50.16661" N

Longitude: 107° 45' 15.80960" W

Nad 1983

Go East on Hwy 64 for 1.2 miles to CR 4450,
turn right on CR 4450 (southeast) for 3.7 miles,
turn right (southerly) for 0.6 miles, over 5 mile bridge,
turn left (southeasterly) 0.5 miles,
turn right (southwesterly) .15 miles,
turn right (northwesterly) 0.2 miles to newly staked location
twinned on existing well pad, SAN JUAN 20.