

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	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	5. Lease Number USA SF-080516-B Unit Reporting Number 6. If Indian, All or Tribal Name
1b. Type of Well GAS		
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP		7. Unit Agreement Name San Juan 28-5 Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700		8. Farm or Lease Name 9. Well Number #101N
4. Location of Well Surf: Unit H (SENE), 2317' FNL & 270' FEL Bottom: Unit L (NWSW), 1795' FSL & 385' FWL Surf: Latitude 36.88209 N Longitude 107.32053 W Bottom: Latitude 36.65888 N Longitude 107.31829		10. Field, Pool, Wildcat Basin DK/Blanco MV 11. Sec., Twn, Rge, Mer. (NMPM) H Sec. 14, T28N, R5W5R L Sec. 13, T28N, R5W3HL API # 30-039-30608
14. Distance in Miles from Nearest Town 72 miles/Blanco	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 270'		
16. Acres in Lease 600.000	17. Acres Assigned to Well 320.00 (W/2) - DK 343.45 (S/2) - MV	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 72' from San Juan 28-6 Unit #101N MV/DK		
19. Proposed Depth 8834' TVD 9064' TMD	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 7411' GR	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)	Date 12/4/08	

PERMIT NO.

APPROVAL DATE

APPROVED BY D. Montecino

TITLE AFM

DATE 12/30/08

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

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

~ Provide certified plat ~
Hold C104
for Directional Survey
and "As Drilled" plat

NMOC

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

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.

JAN 07 2009

DISTRICT I

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102

Revised October 12, 2005

DISTRICT II

1301 W. Grand Avenue, Artesia, N.M. 88210

DISTRICT III

1000 Rio Brazos Rd., Axtec, N.M. 87410

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to Appropriate District Office

DEC 05 2005 State Lease - 4 Copies
Fee Lease - 3 CopiesBureau of Land Management
Farmingington Field Office AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30658	² Pool Code 72319/71599	³ Pool Name BASIN DAKOTA/BLANCO MESAVERDE
⁴ Property Code 7460	⁵ Property Name SAN JUAN 28-5 UNIT	⁶ Well Number 101 N
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 7411'

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
H	14	28N	5W		2317'	NORTH	270'	EAST	RIO ARriba

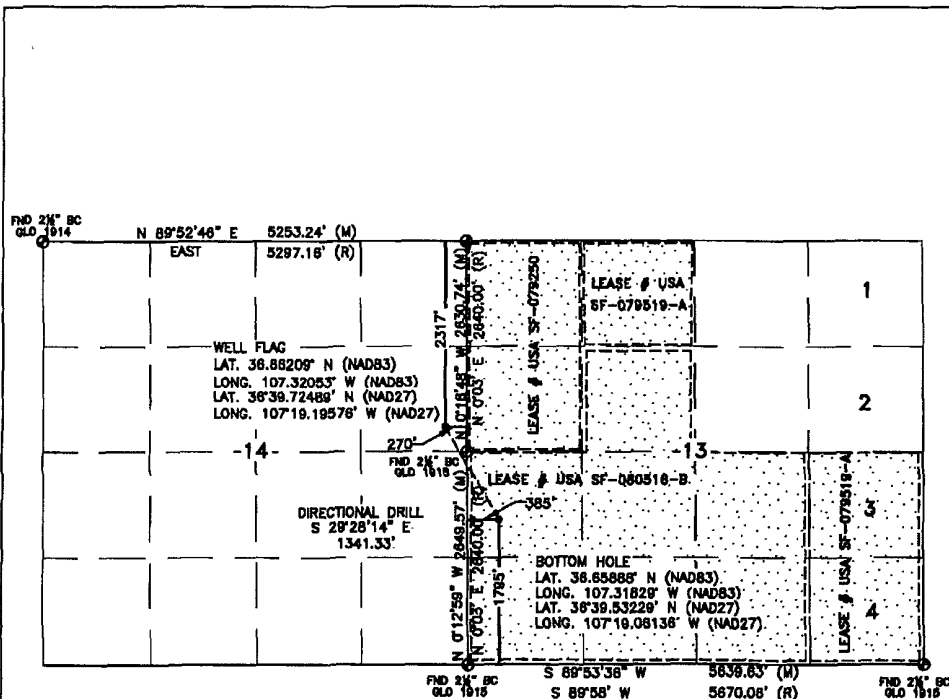
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	13	28N	5W		1795'	SOUTH	385'	WEST	RIO ARriba

¹² Dedicated Acres MV-343.45 Acres - (S/2) DK-320.00 Acres - (W/2)	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

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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 or a compulsory pooling order heretofore entered by the division.

Signature

Date

Jamie Goodwin 12/04/2008

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.

JULY 23, 2008

Date of Survey

Signature and Seal of Professional Surveyor:

David P. Russell

DAVID RUSSELL

Certificate Number

10201

COMPANY
Charge Code
WELL NAME
DUAL WELL
TRIPLE WELL

BURLINGTON RESOURCES		
WAN.RFE.PD07.HG		
SAN JUAN 28 - 5 # 101 N		DATE 7/10/2008
WELL NAME	SAN JUAN 28 - 5 # 211	28-5 # 101P
WELL NAME	SAN JUAN 28 - 5 # 25	

COORDINATES

SEC	TNSHP	RANGE	LATITUDE	LONGITUDE
K 13	28 N	5 W	36.65863 N	107.31476 W

COUNTY

RIO ARRIBA

RECTIFIER
SOLAR
GROUND BED
240 V METER POLE
480 V METER POLE
D C CABLES
A C CABLES
PRIMARY POWER
DISTANCE TO POWER
UNDERGROUND
PUMPJACK
WATER PUMP

SIZE	NEEDED	EXISTING	1 PHASE	3 PHASE
60/30		X		
	X	X		
# 8	400'			
			JEMEZ	
			.4 MILES	

COMMENTS

SAND AND SANDSTONE
1 PHASE JEMEZ PRIMRY .4 MILES
INSTALL NEG TO BOTH NEW WELLS
INSTALL NEW GROUND BED

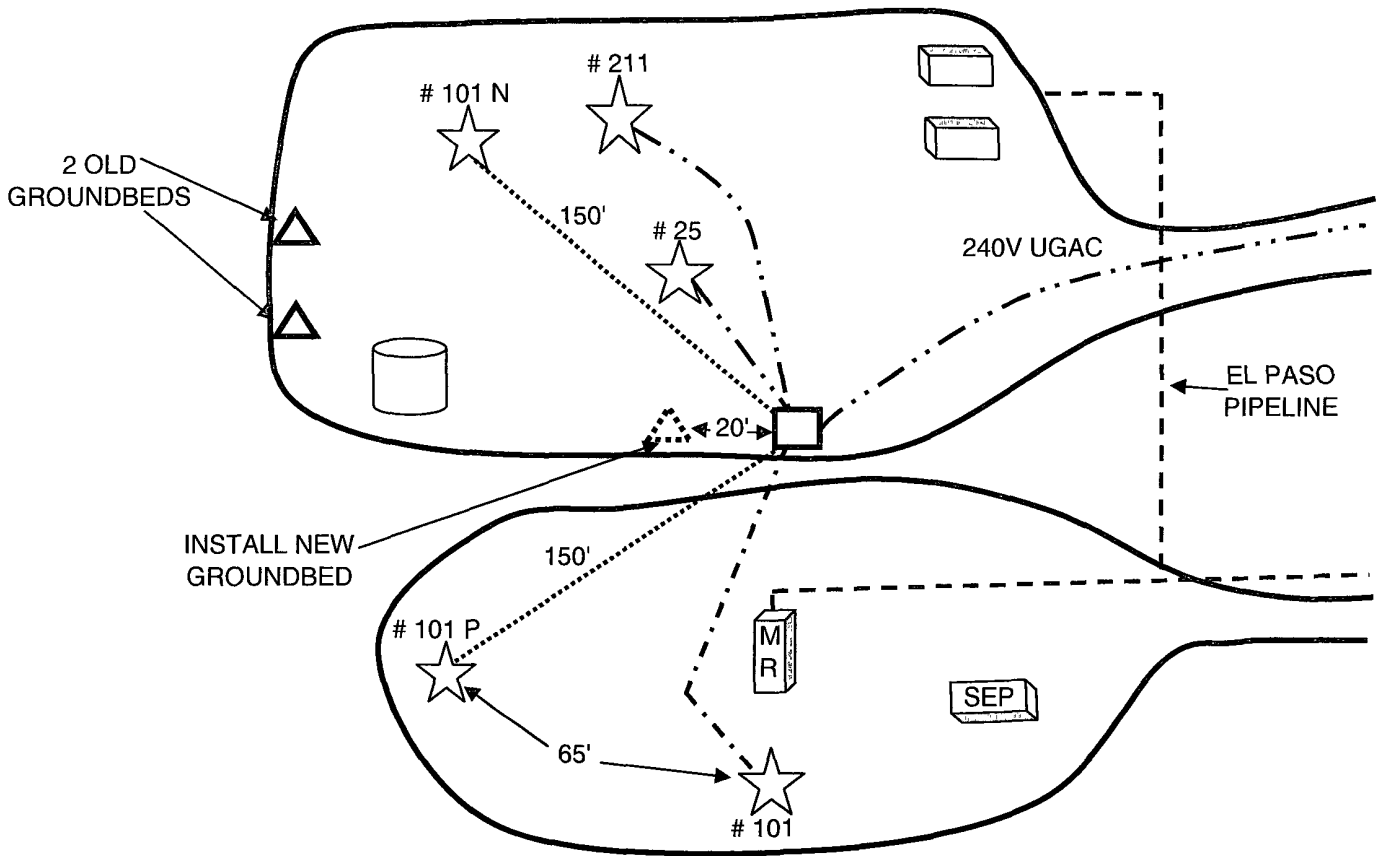
WELL NAME	SAN JUAN 28 - 5 # 101 N
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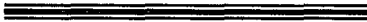


1 PHASE JEMEZ PRIMARY .4 MILES

SAND AND SANDSTONE

INSTALL NEGATIVE TO BOTH NEW WELLS



TANK 	SEP OR DEHY 	SOLAR 	METER POLE 	PUMP JACK 	GND/BED EXISTING CABLE 
RECT 	PIT 	WELL 	proposed solar/gb 	PROPOSED CABLE 	POWER LINE 
			FOREIGN PL 		CONOCO PL 

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-5 UNIT 101N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7362		AFE \$:	
Field Name: hBR_SAN JUAN 28-5 UNIT		Rig: Aztec Rig 730		State: NM	County: RIO ARRIBA
API #:		Geologist:		Phone:	
Geophysicist:		Phone:		Prod. Engineer:	
Res. Engineer: McKee, Cory J		Phone: +1 505-326-9826		Proj. Field Lead:	
Phone:					
Primary Objective (Zones):					
Zone	Zone Name				
FRR	BASIN DAKOTA (PRORATED GAS)				
RON	BLANCO MESAVERDE (PRORATED GAS)				
Location: Surface					
Datum Code: NAD 27		Straight Hole			
Latitude: 36.662082	Longitude: -107.319929	X:	Y:	Section: 14	Range: 005W
Footage X: 270 FEL	Footage Y: 2317 FNL	Elevation: 7411	(FT)	Township: 028N	
Tolerance:					
Location: Bottom Hole					
Datum Code: NAD 27		Straight Hole			
Latitude: 36.662242	Longitude: -107.319189	X:	Y:	Section: 13	Range: 005W
Footage X: 385 FWL	Footage Y: 1795 FSL	Elevation:	(FT)	Township: 028N	
Tolerance:					
Location Type: Restricted		Start Date (Est.): 1/1/2009		Completion Date:	
Date In Operation:					
Formation Data: Assume KB = 7423		Units = FT			
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT
Remarks					
Surface Casing	200	7223	☐		
12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 159 cuft. Circulate cement to surface.					
OJO ALAMO	3679	3744	☐		
KIRTLAND	3868	3555	☐		
FRUITLAND	3956	3467	☐		Possible Gas
PICTURED CLIFFS	4360	3063	☐		
LEWIS	4482	2941	☐		
Intermediate Casing	4582	2841	☐		
8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 1085 cuft. Circulate cement to surface.					
HUERFANITO BENTONITE	5076	2347	☐		
CHACRA	5361	2062	☐		
MASSIVE CLIFF HOUSE	6179	1244	☐	600	Gas
MENEFEE	6243	1180	☐		
POINT LOOKOUT	6537	886	☐		
MANCOS	7035	388	☐		
UPPER GALLUP	7775	-352	☐		
GREENHORN	8512	-1089	☐		
GRANEROS	8568	-1145	☐		
TWO WELLS	8636	-1213	☐	2500	Gas
UPPER CUBERO	8698	-1275	☐		
LOWER CUBERO	8751	-1328	☐		
ENCINAL	8833	-1410	☐		
Total Depth	8834	-1411	☐		
6-1/4" hole, 4-1/2" 11.6 ppf, J-55/ L-80, LTC casing. Cement w/ 579 cuft. Circulate cement a minimum of 100' inside the previous casing string.					

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 28-5 UNIT 101N

DEVELOPMENT

Reference Wells:		
Reference Type	Well Name	Comments

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

TD Logs:	☐ Triple Combo	☐ Dipmeter	☐ RFT	☐ Sonic	☐ VSP	☐ TDT	☒ Other
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Est bottom perf ~20' above the est TD. Mud log from ~100' above the Greenhorn to TD. Mud loggers will call final 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 28-5 #101N
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 7424 0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	WELL @ 7424 0ft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	True
Well:	SJ 28-5 #101N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principle Wellbore		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,882.0	3,679.0	Ojo		0.00		
4,085.4	3,868.0	Kirtland		0.00		
4,179.4	3,956.0	Fruitland		0.00		
4,594.7	4,360.0	Pictured Cliffs		0.00		
4,717.2	4,482.0	Lewis		0.00		
5,311.2	5,076.0	Huerfano Bentonite		0.00		
5,596.2	5,361.0	Chacra		0.00		
6,414.2	6,179.0	Massive Cliffhouse		0.00		
6,478.2	6,243.0	Menefee		0.00		
6,772.2	6,537.0	Point Lookout		0.00		
7,270.2	7,035.0	Mancos		0.00		
8,010.2	7,775.0	Upper Gallup		0.00		
8,747.2	8,512.0	Greenhorn		0.00		
8,803.2	8,568.0	Graneros		0.00		
8,871.2	8,636.0	Two Wells		0.00		
8,933.2	8,698.0	Upper cubero		0.00		
8,986.2	8,751.0	Lower Cubero		0.00		
9,068.2	8,833.0	Encinal		0.00		

BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 28-5 UNIT #101 N
2317' FNL & 270' FEL
LOCATED IN THE SE/4 NE/4 OF SECTION 14,
T28N, R5W, N.M.P.M.,
RIO ARriba COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM BLANCO, NM, GO 32.5 MILES EAST ON HWY 64 TO FOREST ROAD 314.
- 2) GO SOUTH ON F.R. 314 FOR 4.0 MILES TO BEGIN ACCESS ON RIGHT.
- 3) TURN RIGHT AND FOLLOW 2-TRACK FOR 170' TO NEW LOCATIONS.

WELL FLAG LOCATED AT LAT. 36.66209°N, LONG.107.32053°W (NAD 83).

JOB No.: COPC198
DATE: 07/29/08



Russell Surveying
1409 W. Aztec Blvd. #2
Aztec, New Mexico 87410
(505) 334-8637