

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 SF-079250 Unit Reporting Number NMNM-78413-DK NMNM-7841A-MV
1b. Type of Well GAS	6. If Indian, All. or Tribe RCVD JAN 15 '09
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name OIL CONS. DIV. San Juan 28-5 Unit DIST. 2
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name
4. Location of Well Surf: Unit H (SENE), 2260' FNL & 318' FWL Sec 14 BHL: Unit E (SWNW), 1520' FNL & 890' FWL Sec 13 Surf: Latitude: 36.66224N Longitude: 107.32068W BHL: Latitude: 36.66243N Longitude: 107.32011W	9. Well Number 101P
14. Distance in Miles from Nearest Town 37 mile/Blanco	10. Field, Pool, Wildcat Basin Dakota Blanco Mesaverde
15. Distance from Proposed Location to Nearest Property or Lease Line 318'	11. Sec., Twn, Rge, Mer. (NMPM) Surf: Sec. 14, T28N, R5W BHL: Sec. 13, T28N, R5W API # 30-039-30641
16. Acres in Lease 2,453.700	12. County Rio Arriba
17. Acres Assigned to Well MV 343.07 (N/2) DK 320.00 (W/2)	13. State NM
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 72' from San Juan 28-5 Unit 101N (MV/DK)	20. Rotary or Cable Tools Rotary
19. Proposed Depth 8825'	21. Elevations (DF, FT, GR, Etc.) 7415' GL
22. Approx. Date Work will Start	23. Proposed Casing and Cementing Program See Operations Plan attached
24. Authorized by: <i>James Gardenhire</i> James Gardenhire (Regulatory Technician) Date	24. 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

A COMPLETE C-144 MUST BE SUBMITTED TO AND APPROVED BY THE NMOCD FOR: A PIT, CLOSED LOOP SYSTEM, BELOW GRADE TANK, OR PROPOSED ALTERNATIVE METHOD, PURSUANT TO NMOCD PART 19.15.17, PRIOR TO THE USE OR CONSTRUCTION OF THE ABOVE APPLICATIONS.

PERMIT NO.

APPROVAL DATE

APPROVED BY *D. Monkeew*

TITLE *AFM*

DATE *1/14/09*

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

JAN 21 2009

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

B NMOCD

Hold C104
for Directional Survey
and "As Drilled" plat

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

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

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., Aztec, N.M. 87410

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87605

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87605

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039- 30641	² Pool Code 71599 / 72319	³ Pool Name BASIN DAKOTA/BLANCO MESAVERDE
⁴ Property Code 7460	⁵ Property Name SAN JUAN 28-5 UNIT	⁶ Well Number 101 P
⁷ OGWD No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 7415'

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		2260'	NORTH	318'	EAST	RIO ARriba

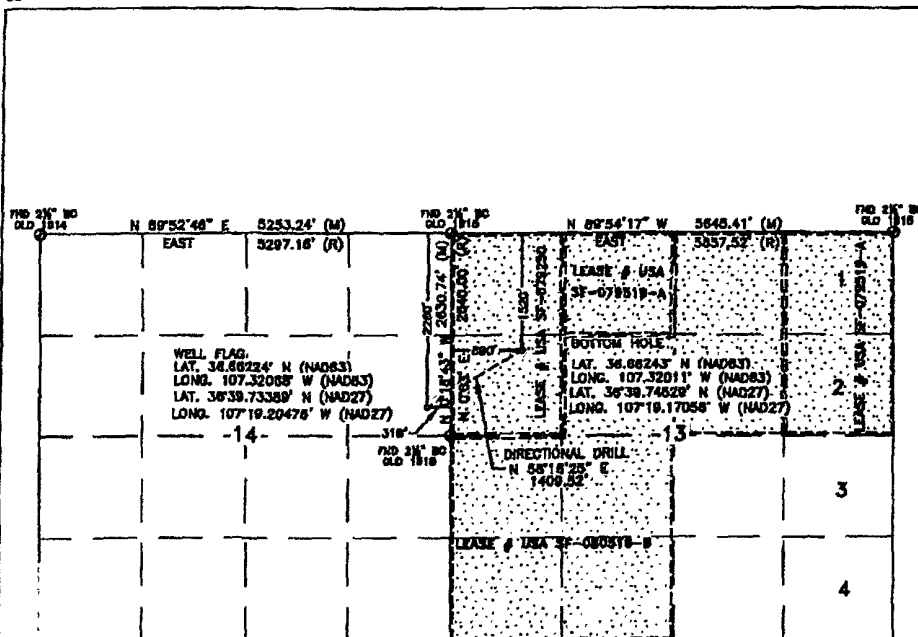
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	13	28N	5W		1520'	NORTH	890'	WEST	RIO ARriba

¹² Dedicated Acres MV-343.07 Acres - (N/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

16



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: *James Gardenhire* Date: 9/03/08
Printed Name: James Gardenhire

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: JULY 23, 2008
Signature and Seal of Professional Surveyor: *David R. Russell*
DAVID R. RUSSELL
NEW MEXICO
REGISTERED PROFESSIONAL LAND SURVEYOR
10201
Certificate Number: 10201

COMPANY
Charge Code
WELL NAME
DUAL WELL
TRIPLE WELL

BURLINGTON RESOURCES		
WAN.RFE.PD08.M7		
SAN JUAN 28 - 5 # 101 P	DATE	8/6/2008
WELL NAME		
WELL NAME		

COORDINATES

SEC	TNSHP	RANGE	LATITUDE	LONGITUDE
H 14	28 N	5 W	36.66224 N	107.32068 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
30/12	X			
	X			
# 8	200'			
# 8	500'			
			JEMEZ	
			1500'	
		X		

COMMENTS

INSTALL RECTIFIER SYSTEM
1 PHASE JEMEZ PRIMARY 1500' UP PIPELINE
SAND AND SANDSTONE
INSTALL LOAD CENTER

WELL NAME	SAN JUAN 28 - 5 # 101 P
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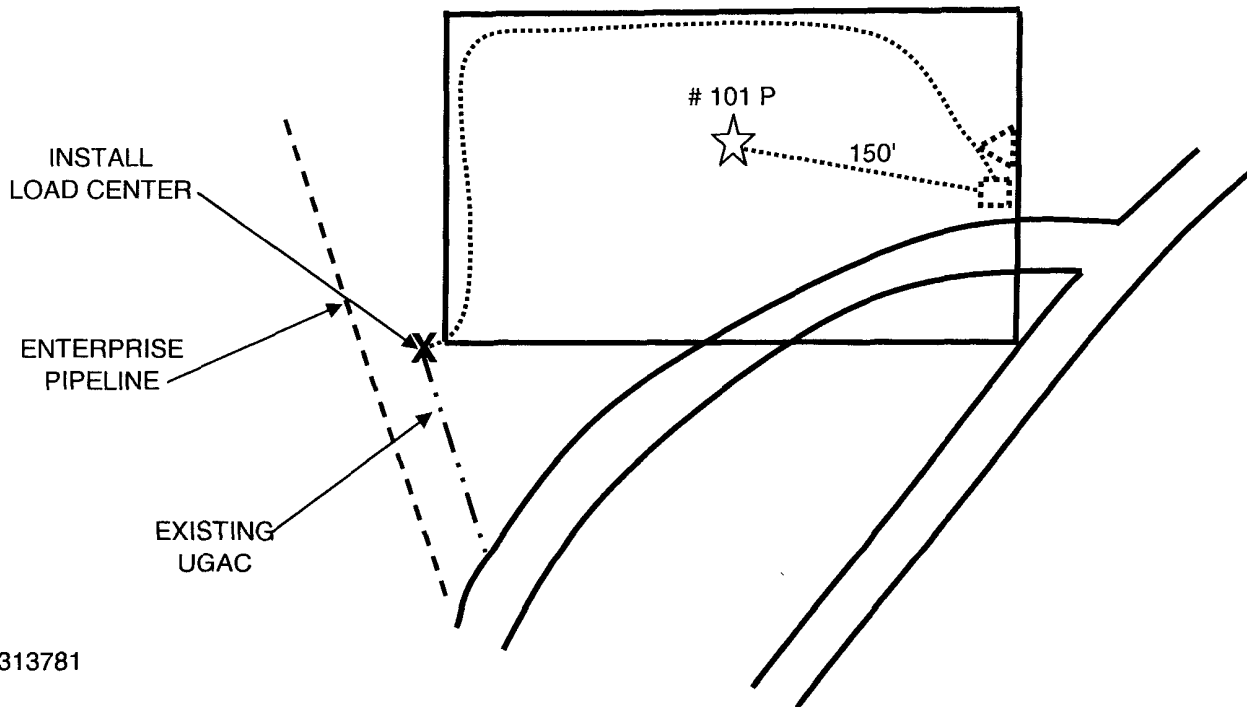


INSTALL RECTIFIER SYSTEM

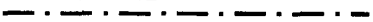
1 PHASE JEMEZ PRIMARY 1500' UP PIPELINE

SAND AND SANDSTONE

FLOW 450' TO RECTIFIER



METER # 98313781

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

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-5 UNIT 101P

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8219				AFE \$:	
Field Name: hBR_SAN JUAN 28-5 UNIT		Rig: Aztec Rig 711		State: NM	County: RIO ARRIBA		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist:		Phone:		Prod. Engineer:		Phone:	
Res. Engineer: McKee, Cory J		Phone: +1 505-326-9826		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
RON	BLANCO MESAVERDE (PRORATED GAS)						
FRR	BASIN DAKOTA (PRORATED GAS)						
Location: Datum Code: NAD 27							
Latitude: 36.662422		Longitude: -107.319509		X:	Y:	Section: 14	Range: 005W
Footage X: 318 FEL		Footage Y: 2260 FNL		Elevation: 7415 (FT)		Township: 028N	
Tolerance:							
Location: Datum Code: NAD 27							
Latitude: 36.662232		Longitude: -107.320079		X:	Y:	Section: 13	Range: 005W
Footage X: 890 FWL		Footage Y: 1520 FNL		Elevation: (FT)		Township: 028N	
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2009		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 7424 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	7224	☐			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	3680	3744	☐				
KIRTLAND	3869	3555	☐				
FRUITLAND	3957	3467	☐			Possible Gas	
PICTURED CLIFFS	4361	3063	☐				
LEWIS	4483	2941	☐				
Intermediate Casing	4583	2841	☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 1092 cuft. Circulate cement to surface.	
HUERFANITO BENTONITE	5077	2347	☐				
CHACRA	5362	2062	☐				
MASSIVE CLIFF HOUSE	6180	1244	☐	600		Gas	
MENEFEE	6244	1180	☐				
POINT LOOKOUT	6538	886	☐				
MANCOS	7036	388	☐				
UPPER GALLUP	7776	-352	☐				
GREENHORN	8511	-1087	☐				
GRANEROS	8563	-1139	☐				
TWO WELLS	8631	-1207	☐	2400		Gas	
UPPER CUBERO	8691	-1267	☐				
LOWER CUBERO	8742	-1318	☐				
ENCINAL	8824	-1400	☐				
Total Depth	8825	-1401	☐			6-1/4" hole, 4-1/2" 11.6 ppf, J-55/L-80, LTC casing. Cement w/ 577 cuft. Circulate cement a minimum of 100' inside the previous casing string.	

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 28-5 UNIT 101P

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:					
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Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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Comments: Location/Tops/Logging - MV/DKNM028N005W13NW2 Prefer C, F, E. Topo could be a problem.

Zones - MV/DKNM028N005W13NW2

General/Work Description - LEWIS INCLUDED
7/21/08-is economic as DD wfp (Doc Mgmt)

ConocoPhillips or its affiliates
Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 28-5 #101P
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 7424.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 7424.0ft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	True
Well:	SJ 28-5 #101P	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
200.0	200.0	Surf	9.625	12.250	
4,846.5	4,583.0	Int	7.000	8.750	
9,088.5	8,825.0	Prod	4.500	6.250	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,909.2	3,680.0	Ojo		0.00		
4,114.7	3,869.0	Kirtland		0.00		
4,208.7	3,957.0	Fruitland		0.00		
4,624.0	4,361.0	Pictured Cliffs		0.00		
4,746.5	4,483.0	Lewis		0.00		
5,340.5	5,077.0	Huerfano Bentonite		0.00		
5,625.5	5,362.0	Chacra		0.00		
6,443.5	6,180.0	Mass Cliffhouse		0.00		
6,507.5	6,244.0	Menefee		0.00		
6,801.5	6,538.0	Point Lookout		0.00		
7,299.5	7,036.0	Mancos		0.00		
8,039.5	7,776.0	Upper Gallup		0.00		
8,774.5	8,511.0	Greenhorn		0.00		
8,826.5	8,563.0	Graneros		0.00		
8,894.5	8,631.0	Two Wells		0.00		
8,954.5	8,691.0	Upper Cubero		0.00		
9,005.5	8,742.0	Lower Cubero		0.00		
9,087.5	8,824.0	Encinal		0.00		

BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 28-5 UNIT #101 P
2260' FNL & 318' 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. 36.66224°N, LONG. 107.32068°W (NAD 83).

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



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