

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

JAN 06 2009

1a. Type of Work DRILL	5. Lease Number SF-079363 Unit Reporting Number NMNM-78412A-MV NMNM-78412C-DK	Bureau of Land Management Farmington Field Office
1b. Type of Well GAS	6. If Indian, All. or Tribe	
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name San Juan 28-6 Unit	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name RCVD JUL 23 '09 9. Well Number #166N OIL CONS. DIV. DIST. 3	
4. Location of Well Location: Unit F (SENW), 2380' FNL & 1745' FWL, Latitude 36.603958'N Longitude 107.421281'W	10. Field, Pool, Wildcat Basin DK / Blanco MV 11. Sec., Twn, Rge, Mer. (NMPM) F Sec. 1, T27N, R06W API # 30-039-30637	
14. Distance in Miles from Nearest Town 37.1 miles from Blanco, NM	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1745'	17. Acres Assigned to Well MV/DK 320 (W/2) 320.32	
16. Acres in Lease 2560.42 Acres		
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 1205' from the SJ 28-6 #187	20. Rotary or Cable Tools Rotary	
19. Proposed Depth 7755'		
21. Elevations (DF, FT, GR, Etc.) 6524' GL	22. Approx. Date Work will Start 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	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: Patsy Clugston (Sr. Regulatory Specialist)	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.

Example Master Plan Type 3

Bond Numbers NMB-000015 and NMB-000089

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

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

JUL 28 2009

NMOCD

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

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

Form C-102
Revised October 12, 2005

RECEIVED
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies
JAN 06 2009

Bureau of Land Management ☐ AMENDED REPORT
Farmington Field Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-30637		*Pool Code 71599 / 72319		*Pool Name BASIN DAKOTA/BLANCO MESAVERDE	
*Property Code 7462		*Property Name SAN JUAN 28-6 UNIT			*Well Number 166N
*OGRID No. 14538		*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP			*Elevation 6524'

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
F	1	27-N	6-W		2380'	NORTH	1745'	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
F									
12 Dedicated Acres DK 320.32 ACRES W/2 MV 320.32 ACRES W/2		13 Joint or Infill		14 Consolidation Code		15 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

16 N 89°32'24" E 2585.67' S 00°45'57" W 2657.48' 1745' 2380' LOT 4 LOT 3 LOT 2 LOT 1 1 LAT: 36°36.2370' N. LONG: 107°25.2407' W. NAD 1927 LAT: 36.603958° N. LONG: 107.421281° W. NAD 1983 NM SF-079363		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 undivided 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. Signature Patsy Clugston 1/6/09 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. 6-16-08 Date of Survey Signature G. L. Russell Certificate Number 15703 NEW MEXICO 15703 LICENSED PROFESSIONAL SURVEYOR	

COMPANY
Charge Code
WELL NAME
DUAL WELL
TRIPLE WELL

BURLINGTON RESOURCES		
WAN.RFE.PDO8.04		
SAN JUAN 28 - 6 # 166 N		DATE 4/11/2008
WELL NAME		
WELL NAME		

COORDINATES

SEC	TNSHP	RANGE	LATITUDE	LONGITUDE
F 1	27 N	6 W	36 36.2370 N	107 25.2407 W

COUNTY

RIO ARRIBA

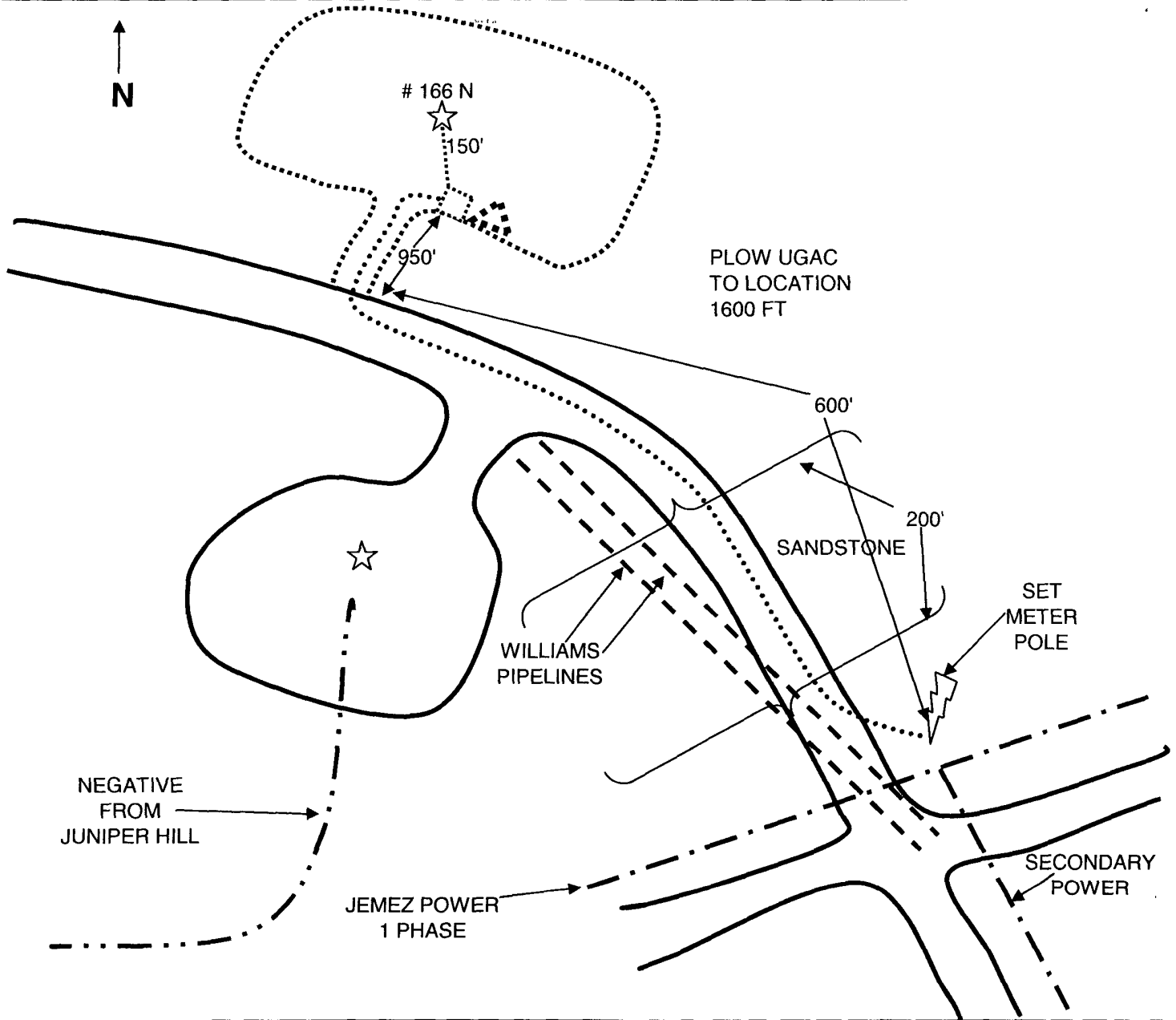
RECTIFIER
SOLAR
GROUND BED
240 V METER POLE
480 V METER POLE
D C CABLES
A C CABLES
PRIMARY POWER
DISTANCE TO POWER
UNDERGROUND
PUMPJACK
WATER PUMP

SIZE	NEEDED	EXISTING	1 PHASE	3 PHASE
30/12	X			
	X			
	X			
# 8	200'			
# 8	1700'			
			JEMEZ	
			1550	

COMMENTS

SET METER POLE - PLOW UGAC TO LOC 1600 FT - INSTALL RECTIFIER SYSTEM
200 FT SANDSTONE UP HILL - THEN SANDY LOAM

WELL NAME
SAN JUAN 28 - 6 # 166 N



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 28-6 UNIT 166N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8004			AFE \$:	
Field Name: hBR_SAN JUAN		Rig: Aztec Rig 673		State: NM	County: RIO ARRIBA	API #:
Geologist:	Phone:	Geophysicist:		Phone:		
Geoscientist:	Phone:	Prod. Engineer:		Phone:		
Res. Engineer: Prabowo, Wahyu	Phone: +1-505-326-9797	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						
Latitude: 36.603949	Longitude: -107.420678	X:	Y:	Section: 01	Range: 006W	
Footage X: 1745 FWL	Footage Y: 2380 FNL	Elevation: 6524	(FT)	Township: 027N		
Tolerance:						
Location Type: Restricted		Start Date (Est.): 1/1/2009		Completion Date:		Date In Operation:
Formation Data: Assume KB = 6539 Units = FT						
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	6339	☐			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	2620	3919	☐			
KIRTLAND	2760	3779	☐			
FRUITLAND	2965	3574	☐			Possible Gas
PICTURED CLIFFS	3309	3230	☐			
LEWIS	3496	3043	☐			
Intermediate Casing	3596	2943	☐			8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Cement with 810 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	3899	2640	☐			
CHACRA	4257	2282	☐			Est. Top Perf - 4256 (2282)
UPPER CLIFF HOUSE	4844	1695	☐			Gas
MASSIVE CLIFF HOUSE	4962	1577	☐	686		Gas
MENEFEE	5120	1419	☐			
POINT LOOKOUT	5488	1051	☐			
MANCOS	5968	571	☐			
UPPER GALLUP	6669	-130	☐			
GREENHORN	7411	-872	☐			
GRANEROS	7474	-935	☐			
TWO WELLS	7506	-967	☐	2650		Gas
PAGUATE	7551	-1012	☐			
UPPER CUBERO	7630	-1091	☐			
LOWER CUBERO	7671	-1132	☐			Est. Btm Perf - 7739 (-1201) based on offset wells
ENCINAL	7755	-1216	☐			TD - Top of Encinal
Total Depth	7755	-1216	☐			6-1/4" hole, 4-1/2" 10.5/11.6 ppf, J-55, STC/LTC casing. Cement w/ 566 cuft. Circulate cement a minimum of 100' inside the previous casing string.
Reference Wells:						
Reference Type	Well Name		Comments			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-6 UNIT 166N

DEVELOPMENT

Production	SJ 28-6 109	27N-6W1 SE NW NE
Production	SJ 28-6 166M	27N-6W1 NE NW
Production	SJ 28-6 166	27N-6W1 NE SW SW
Production	SJ 28-6 109M	27N-6W1 NW SE

Logging Program:

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

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

Cased Hole GR / CBL

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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Comments: Location/Tops/Logging - MV/DKNM027N006W01NW2 Avoid C, prefer E,D,F, topo could be an issue.

Zones - MV/DKNM027N006W01NW2

General/Work Description - LEWIS INCLUDED

In doing Plat Review Land it was noted that the dedicated acres on the parent well's plat was 320.32. DSW requested change to the dedicated acres for this 166N plat - 6/2/08 - dsw; corrected, P.R. complete

Directions from the Post Office
in Blanco, NM
to
Burlington Resources Oil & Gas Company LP
SAN JUAN 28-6 UNIT 166N
2380' FNL & 1745' FWL,
Section 1, T27N, R6W, N.M.P.M., Rio Arriba County,
New Mexico
Latitude: 36° 36' 14.25" N
Longitude: 107° 25' 16.61" W
Nad 83

From the Post Office in Blanco, NM
Take Highway 64 East for 27.6 miles,
turn right (southerly) on General American for 1.1 miles,
stay right @ y-intersection (southwesterly) for 5.5 miles,
stay right (westerly) 1.9 miles,
turn right (northerly) 1.0 miles,
to beginning of new access on right side of road,
continue 950.96' to the newly staked location.