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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MAR 08 2010

Bureau of Land Management
Farmington Field Office

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number SF-078741 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 NMMN-78420A San Juan 30-6 Unit <i>DK reports to lease</i>
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name RCUD MAR 23 '10 OIL CONS. DIV. DIST. 3
4. Location of Well Surf: Unit H(ENE), 1601' FNL & 729' FEL Bottomhole: Unit B(NWNE), 990' FNL & 1930' FEL Surf: Latitude: 36.80096° N (NAD83) Longitude: 107.42571° W Bottomhole: Latitude: 36.80263° N (NAD83) Longitude: 107.42982° W	10. Field, Pool, Wildcat Blanco MV / Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) H Sec. 23, T30N, R6W API # 30-039- 30946
14. Distance in Miles from Nearest Town 44 miles / Blanco	12. County Rio Arriba
15. Distance from Proposed Location to Nearest Property or Lease Line 729'	13. State NM
16. Acres in Lease 2,378.080	17. Acres Assigned to Well 320.00 E/2 - MV/DK
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 142' from San Juan 30-6 Unit 27 (MV)	
19. Proposed Depth 7687' <i>This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4</i>	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6250' GL	22. Approx. Date Work will Start DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>Crystal Tafoya</u> Crystal Tafoya (Regulatory Technician)	Date <u>3/8/2010</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 any statement or presentation to any Federal, State, or local government 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

APPROVAL OR ACCEPTANCE OF THIS
FORM DOES NOT RELIEVE THE LESSEE AND
LESSOR FROM OBTAINING ANY OTHER
AUTHORIZATION REQUIRED FOR OPERATIONS
ON FEDERAL AND INDIAN LANDS

MAR 31 2010

Hold C104
for Directional Survey
and "As Drilled" plat

NMOCD

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

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

OIL CONSERVATION DIVISION

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

RECEIVED

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

MAR 08 2010

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-30946		*Pool Code 72319 / 71599		*Pool Name BLANCO MESAVERDE / BASIN DAKOTA	
*Property Code 7469		*Property Name SAN JUAN 30-6 UNIT			*Well Number 27 N
*OGRD No. 14538		*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP			*Elevation 6250'

¹⁰ Surface Location

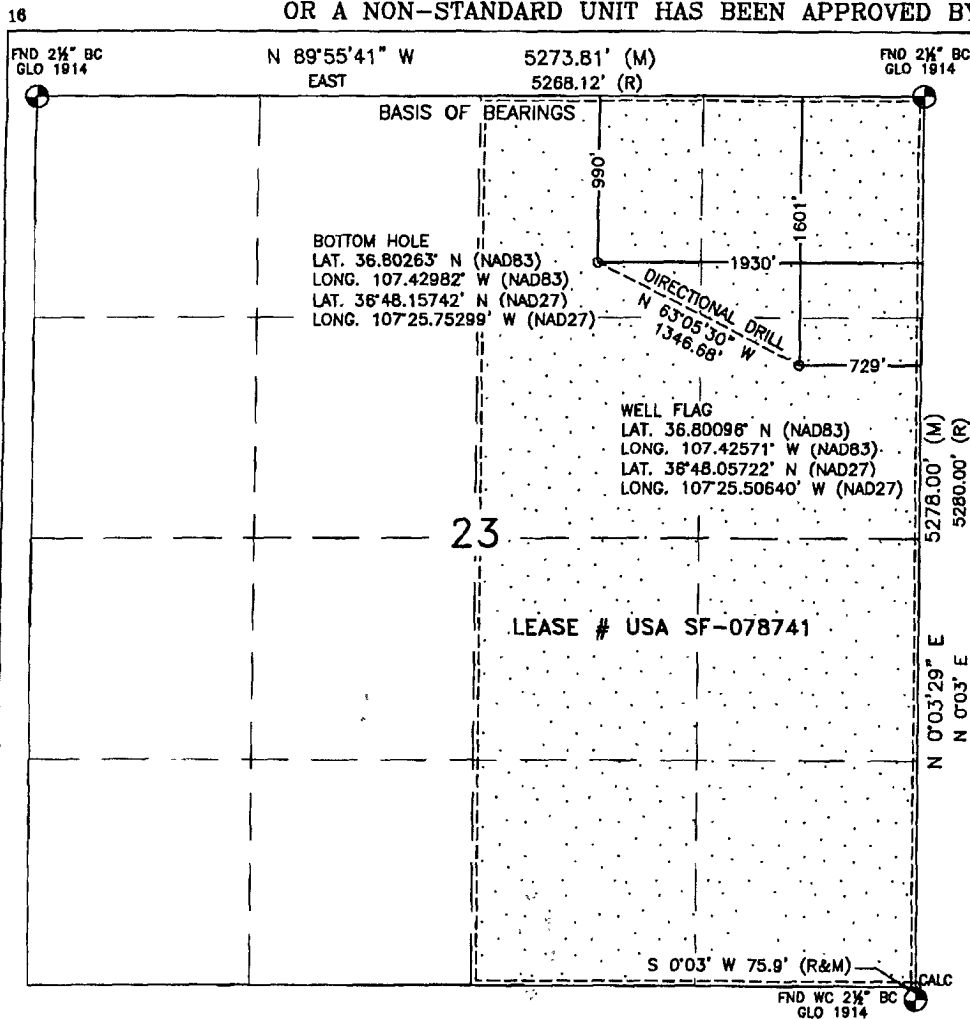
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	23	30N	6W		1601'	NORTH	729'	EAST	RIO ARRIBA

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
B	23	30N	6W		990'	NORTH	1930'	EAST	RIO ARRIBA

¹² Dedicated Acres 320.00 ACRES - E/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



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.

Crystal Tafoya 10/28/09
Signature Date

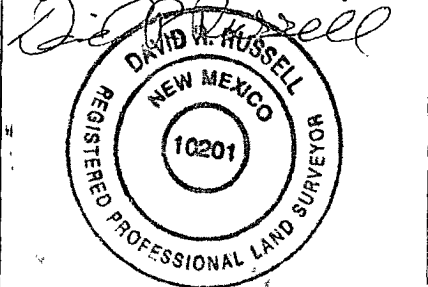
Crystal Tafoya 10-28-09
Printed Name

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.

OCTOBER 9, 2009

Date of Survey
Signature and Seal of Professional Surveyor:



DAVID RUSSELL
Certificate Number 10201

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-6 UNIT 27N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9330				AFE \$: 1,066,315.12	
Field Name: SAN JUAN		Rig: H&P Rig 282		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				Directional	
Latitude: 36.800954	Longitude: -107.425107	X:	Y:	Section: 23		Range: 006W	
Footage X: 729 FEL	Footage Y: 1601 FNL	Elevation: 6250 (FT)		Township: 030N			
Tolerance:							
Location: Bottom Hole		Datum Code: NAD 27				Directional	
Latitude: 36.802624	Longitude: -107.429216	X:	Y:	Section: 23		Range: 006W	
Footage X: 1930 FEL	Footage Y: 990 FNL	Elevation: (FT)		Township: 030N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2010		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6266 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	6066	☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.	
NACIMIENTO	994	5272	☐				
OJO ALAMO	2312	3954	☐				
KIRTLAND	2426	3840	☐				
FRUITLAND	2726	3540	☐			Possible Gas	
PICTURED CLIFFS	3188	3078	☐				
LEWIS	3259	3007	☐				
HUERFANITO BENTONITE	3883	2383	☐				
Intermediate Casing	3883	2383	☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 939 cuft. Circulate cement to surface.	
CHACRA	4240	2026	☐			Est. Top Perf - 4241 (2024)	
UPPER CLIFF HOUSE	4960	1306	☐			Gas; Cliffhouse is dry	
MASSIVE CLIFF HOUSE	5078	1188	☐	400		Gas	
MENEFEE	5139	1127	☐				
POINT LOOKOUT	5404	862	☐				
MANCOS	5781	485	☐				
UPPER GALLUP	6666	-400	☐				
GREENHORN	7368	-1102	☐				
GRANEROS	7420	-1154	☐				
TWO WELLS	7526	-1260	☐	3283		Gas	
PAGUATE	7538	-1272	☐				
UPPER CUBERO	7560	-1294	☐				
LOWER CUBERO	7587	-1321	☐			Est. Btm Perf - 7636 (-1371) based on offset wells	

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 30-6 UNIT 27N

DEVELOPMENT

ENCINAL	7652	-1386	☐	TD - 35' below T/ENCN
Total Depth	7687	-1421	☐	6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/ 519 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:		
Reference Type	Well Name	Comments
Production	SJ 30-6 27A	30N 6W 23 SW SE
Production	SJ 30-6 43A	30N 6W 14 NE SE
Production	SJ 30-6 41M	30N 6W 13 SW NW SW
Production	SJ 30-6 3A	30N 6W 24 NW NW

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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Cased Hole GR / CBL

Mudlog from 100' above top of GRHN to TD - mudlogger will call 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 30-6 #27N
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6266.0ft (H&P rigs)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6266.0ft (H&P rigs)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-6 #27N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
7,941.6	7,652.0	Encinal		0.00		
6,955.6	6,666.0	Upper Gallup		0.00		
7,849.6	7,560.0	Upper Cubero		0.00		
5,693.6	5,404.0	Pt. Lookout		0.00		
7,976.6	7,687.0	TD		0.00		
2,947.2	2,726.0	Fruitland		0.00		
4,529.6	4,240.0	Chacra		0.00		
5,428.6	5,139.0	Menefee		0.00		
3,461.3	3,188.0	Pictured Cliffs		0.00		
7,657.6	7,368.0	Greenhorn		0.00		
2,610.5	2,426.0	Kirtland		0.00		
5,249.6	4,960.0	Upper Cliffhouse		0.00		
5,367.6	5,078.0	Massive Cliffhouse		0.00		
7,876.6	7,587.0	Lower Cubero		0.00		
7,709.6	7,420.0	Graneros		0.00		
4,172.6	3,883.0	Huerf. Bent.		0.00		
3,536.9	3,259.0	Lewis		0.00		
7,815.6	7,526.0	Two Wells		0.00		
955.7	944.0	Nacimiento		0.00		
2,482.6	2,312.0	Ojo Alamo		0.00		
6,070.6	5,781.0	Mancos Shale		0.00		

REFERENCE INFORMATION

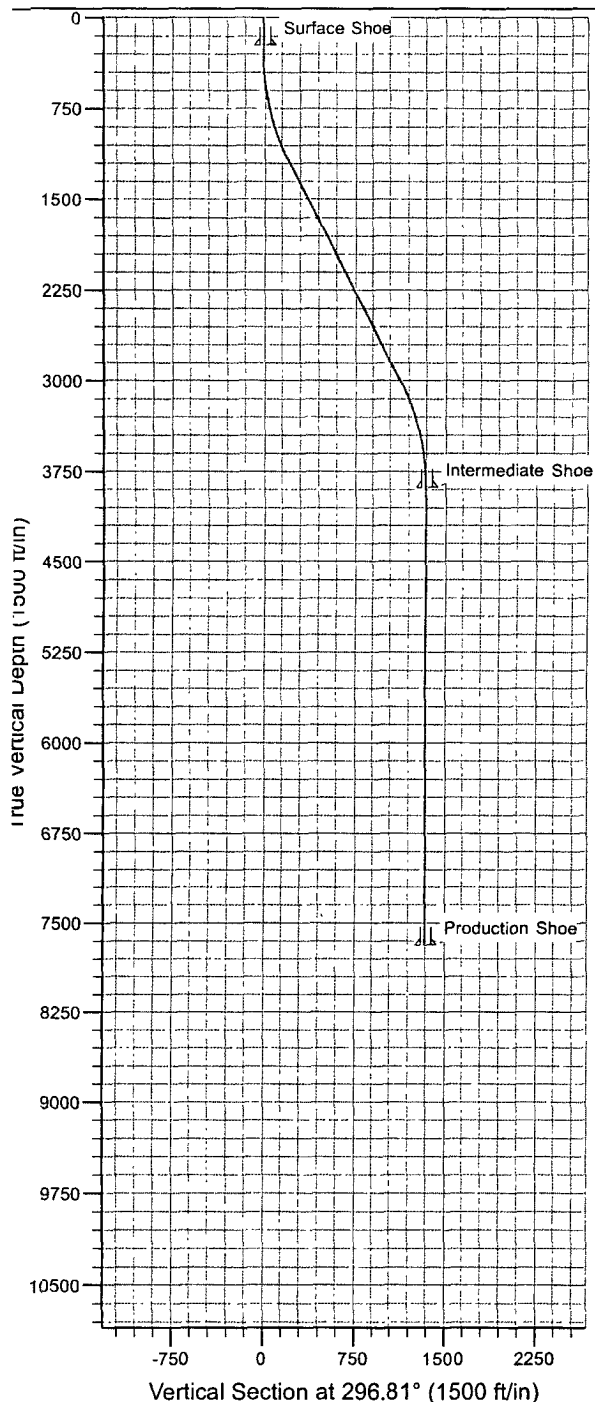
RKB @ 6266.0ft (H&P rigs)
Ground Elevation 6250.0
Reference Lat: 36° 48' 3.433 N
Reference Long: 107° 25' 30.384 W

Project: San Juan Basin - New Mexico Wells
Site: San Juan 30 Wells
Well: SJ 30-6 #27N
Wellbore: Principal Wellbore
Design: Plan #1



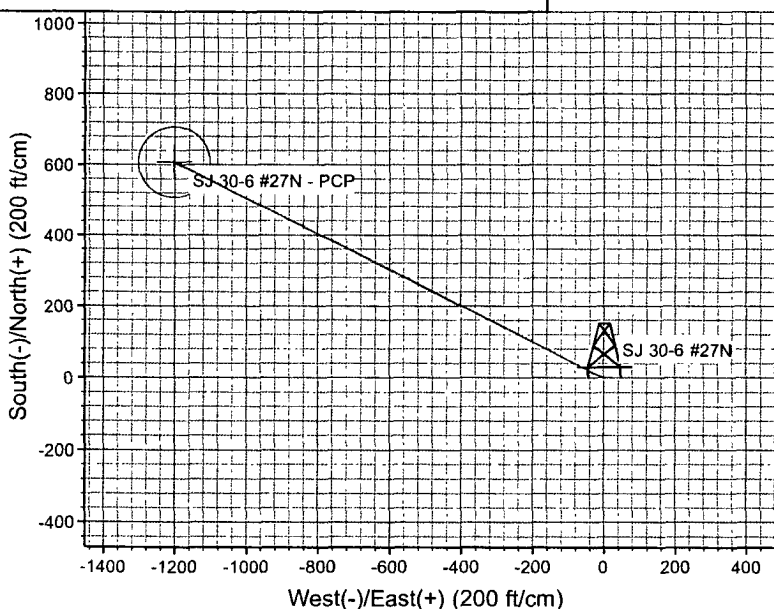
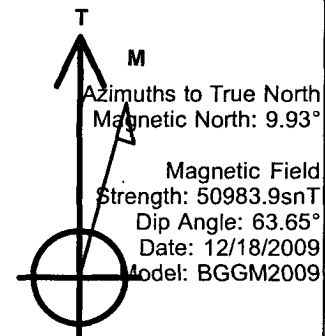
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	320.0	0.00	0.00	320.0	0.0	0.0	0.00	0.00	0.0	
3	1220.0	27.00	296.81	1187.1	93.9	-185.8	3.00	296.81	208.2	
4	3272.6	27.00	296.81	3015.9	514.2	-1017.5	0.00	0.00	1140.0	
5	4172.6	0.00	0.00	3883.0	608.0	-1203.3	3.00	180.00	1348.2	SJ 30-6 #27N - ICP
6	7976.6	0.00	0.00	7687.0	608.0	-1203.3	0.00	0.00	1348.2	SJ 30-6 #27N - PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
944.0	955.7	Nacimiento
2312.0	2482.6	Ojo Alamo
2426.0	2610.5	Kirtland
2726.0	2947.2	Fruitland
3188.0	3461.3	Pictured Cliffs
3259.0	3536.9	Lewis
3883.0	4172.6	Huerf. Bent.
4240.0	4529.6	Chacra
4960.0	5249.6	Upper Cliffhouse
5078.0	5367.6	Massive Cliffhouse
5139.0	5428.6	Menefee
5404.0	5693.6	Pt. Lookout
5781.0	6070.6	Mancos Shale
6666.0	6955.6	Upper Gallup
7368.0	7657.6	Greenhorn
7420.0	7709.6	Graneros
7526.0	7815.6	Two Wells
7560.0	7849.6	Upper Cubero
7587.0	7876.6	Lower Cubero
7652.0	7941.6	Encinal
7687.0	7976.6	TD



BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 30-6 UNIT #27 N
1601' FNL & 729' FEL
LOCATED IN THE SE/4 NE/4 OF SECTION 23,
T30N, R6W, N.M.P.M.,
RIO ARriba COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM POST OFFICE IN BLANCO, TRAVEL EASTERLY ON HWY 64 FOR 28.4 MILES.
- 2) TURN LEFT ONTO HWY 527 AND GO 7.8 MILES.
- 3) TURN RIGHT ONTO ROSA ROAD AND GO 5.1 MILES.
- 4) TURN RIGHT AND GO 2.0 MILES.
- 5) TURN RIGHT AT WELL PAD AND GO 0.4 MILES.
- 6) CONTINUE TO THE RIGHT & GO 0.2 MILES.
- 7) TURN RIGHT AND GO TO EXISTING LOCATION WHERE PAD IS TWINNED.

WELL FLAG LOCATED AT LAT 36.80096° N, LONG. 107.42571° W (NAD 83).

