

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

MAR 24 2010

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Bureau of Land Management
Farmington Field Office

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 NM-02151
1b. Type of Well GAS		Unit Reporting Number NMNM-78420A-MV
		6. If Indian, All. or Tribe
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name San Juan 30-6 Unit	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name RCVD JUL 22 '10 OIL CONS. DIV. DIST. 3	
		9. Well Number 104N
4. Location of Well Surface: Unit P(SESE), 788' FSL & 597' FEL Bottomhole: Unit J(NWSE), 1380' FSL & 1550' FEL Surface: Latitude: 36.7785755° N (NAD83) Longitude: 107.5693456° W Bottomhole: Latitude: 36.7802125° N (NAD83) Longitude: 107.5726021° W	10. Field, Pool, Wildcat Blanco MV / Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) p Sec. 28, T30N, R7W API # 30-039-30957	
14. Distance in Miles from Nearest Town 41 miles / Bloomfield	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 597'		
16. Acres in Lease 320.00	 H₂S POTENTIAL EXIST	17. Acres Assigned to Well 320.00 E/2 - MV/DK
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 101' from San Juan 30-6 Unit 91A (MV) P&A		
19. Proposed Depth 8297'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6896' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Crystal Tafoya</u> Crystal Tafoya (Regulatory Technician)	Date <u>3/24/2010</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 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".

JUL 28 2010

NMOCD

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
1825 N. French Dr., Hobbs, N.M. 88240

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, N.M. 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, N.M. 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

MAR 24 2010

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30457	² Pool Code 71599 / 72319	³ Pool Name BIANCO DAKOTA / MESA VERDE
⁴ Property Code 7469	⁵ Property Name SAN JUAN 30-6 UNIT	⁶ Well Number 104N
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6896

¹⁰ Surface Location

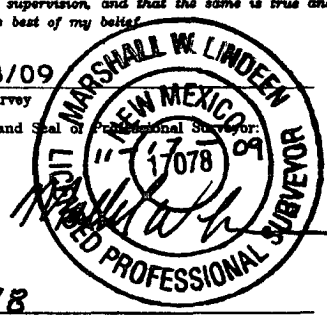
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	28	30 N	7 W		788	SOUTH	597	EAST	RIO ARRIBA

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
J	28	30 N	7 W		1380	SOUTH	1550	EAST	RIO ARRIBA

¹² Dedicated Acres 320.00 (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

¹⁶ N 89°50' W 2640' (R) O = SURFACE LOCATION ● = BOTTOM HOLE LOCATION	2640' (R)	S 89°48'39" W 2634.27'	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 working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <i>Crystal Tafoya</i> Date: 12/1/09 Printed Name: Crystal Tafoya 12/01/09
NOTE: BEARINGS & DISTANCES SHOWN ARE REFERENCED TO THE NEW MEXICO COORDINATE SYSTEM, WEST ZONE, NAD 83.		USA NM-02151	
N 0°03' W		SECTION 28	N 0°21'25" W
2636.20'		LAT: 36.7802125° N LONG: 107.5726021° W NAD 83 LAT: 36°46.81241' N LONG: 107°34.31964' W NAD 27	2637.74'
N 0°06'08" W		N 58°09'15" W-1124.57' LAT: 36.7785755° N LONG: 107.5693456° W NAD 83 LAT: 36°46.71418' N LONG: 107°34.12426' W NAD 27	2636.88'
S 80°53'42" W	2637.33'	N 89°55'05" W 2646.32'	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: 5/28/09 Signature and Seal of Professional Surveyor:  Certificate Number: 17078

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-6 UNIT 104N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8525				AFE \$: 1,706,681.76	
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						
FRR	BASIN DAKOTA (PRORATED GAS)						
RON	BLANCO MESAVERDE (PRORATED GAS)						
Location: Surface		Datum Code: NAD 27				Directional	
Latitude: 36.778570	Longitude: -107.568738	X:	Y:	Section: 28	Range: 007W		
Footage X: 597 FEL	Footage Y: 788 FSL	Elevation: 6896	(FT)	Township: 030N			
Tolerance:							
Location: Bottom Hole		Datum Code: NAD 27				Directional	
Latitude: 36.780207	Longitude: -107.571994	X:	Y:	Section: 28	Range: 007W		
Footage X: 1550 FEL	Footage Y: 1380 FSL	Elevation:	(FT)	Township: 030N			
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2010		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6910 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	6710	☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.	
NACIMIENTO	1526	5384	☐				
OJO ALAMO	2844	4066	☐				
KIRTLAND	2954	3956	☐				
FRUITLAND	3322	3588	☐			Possible Gas	
PICTURED CLIFFS	3782	3128	☐				
LEWIS	3904	3006	☐				
Intermediate Casing	4004	2906	☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 941 cuft. Circulate cement to surface.	
HUERFANITO BENTONITE	4480	2430	☐				
CHACRA	4802	2108	☐				
MASSIVE CLIFF HOUSE	5545	1365	☐	362		Gas	
MENEFEE	5640	1270	☐				
POINT LOOKOUT	5970	940	☐				
MANCOS	6365	545	☐				
UPPER GALLUP	7242	-332	☐				
GREENHORN	7962	-1052	☐				
GRANEROS	8017	-1107	☐				
TWO WELLS	8086	-1176	☐	3430		Gas	
UPPER CUBERO	8166	-1256	☐				
LOWER CUBERO	8190	-1280	☐				
ENCINAL	8265	-1355	☐				

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 30-6 UNIT 104N

DEVELOPMENT

Total Depth	8297	-1387	☐	6-1/4" hole, 4-1/2" 11.6 ppf, J-55 & L-80, LTC casing. Cement w/ 584 cuft. Circulate cement a minimum of 100' inside the previous casing string.
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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
Mudlog from ~100' above the Greenhorn to TD. Mudloggers will call final TD. Est bottom perf is ~20' above the est 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 #104N
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6911.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6911 0ft (Original Well Elev)
Site:	San Juan 30 Wells	North Reference:	Grid
Well:	SJ 30-6 #104N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,968.8	2,841.0	Ojo		0.00		
3,083.4	2,948.0	Kirtland		0.00		
3,483.0	3,321.0	Fruitland		0.00		
3,968.2	3,791.0	Pictured Cliffs		0.00		
4,083.6	3,906.0	Lewis		0.00		
4,660.7	4,483.0	Huerfano Bentonite		0.00		
4,985.7	4,808.0	Chacra		0.00		
5,723.7	5,546.0	Mass. Cliffhouse		0.00		
5,816.7	5,639.0	Menefee		0.00		
6,148.7	5,971.0	Point Lookout		0.00		
6,548.7	6,371.0	Mancos		0.00		
7,423.7	7,246.0	Upper Gallup		0.00		
8,145.7	7,968.0	Greenhorn		0.00		
8,201.7	8,024.0	Graneros		0.00		
8,269.7	8,092.0	Two Wells		0.00		
8,346.7	8,169.0	Upper cubero		0.00		
8,379.7	8,202.0	Lower Cubero		0.00		
8,440.7	8,263.0	Encinal		0.00		

REFERENCE INFORMATION

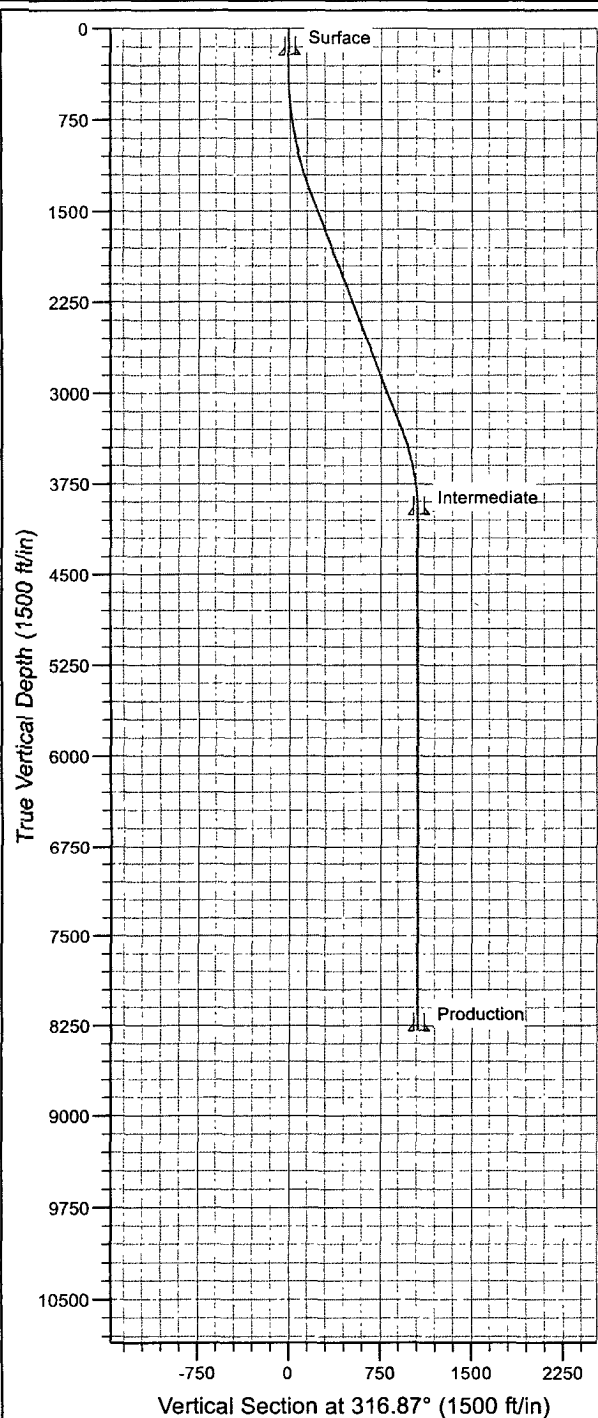
RKB @ 6911.0ft (Original Well Elev)
Ground Elevation 6896.0
Reference Lat: 36° 46' 44.411 N
Reference Long: 107° 34' 6.671 W

Object: San Juan Basin - New Mexico Wells
Site: San Juan 30 Wells
Well: SJ 30-6 #104N
Wellbore: Wellbore #1
Design: Plan #1



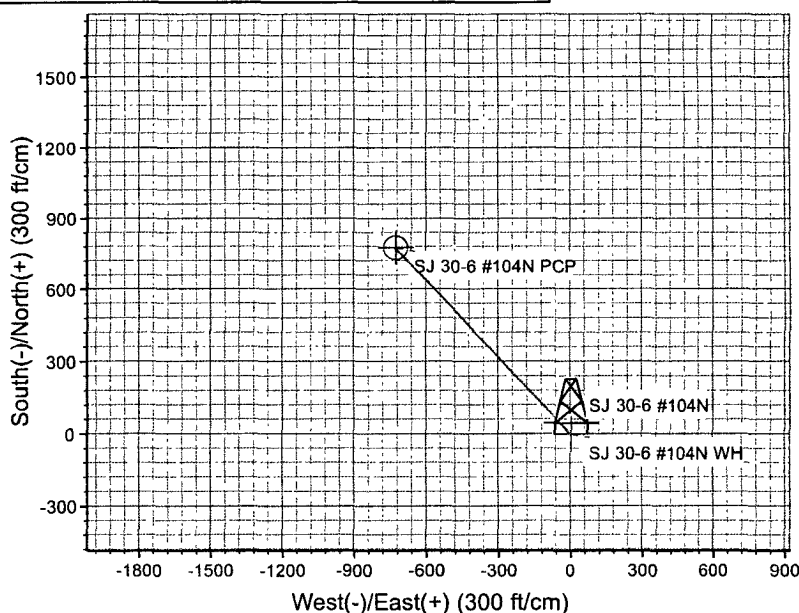
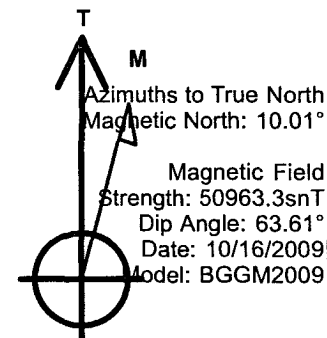
SECTION DETAILS

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	350.0	0.00	0.00	350.0	0.0	0.0	0.00	0.00	0.0	
3	1401.3	21.03	316.87	1377.9	139.2	-130.4	2.00	316.87	190.7	
4	3482.8	21.03	316.87	3320.8	684.2	-641.0	0.00	0.00	937.6	
5	4183.7	0.00	0.00	4006.0	777.0	-728.0	3.00	180.00	1064.7	SJ 30-6 #104N ICP
6	8472.7	0.00	0.00	8295.0	777.0	-728.0	0.00	0.00	1064.7	SJ 30-6 #104N PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2841.0	2968.8	Ojo
2948.0	3083.4	Kirtland
3321.0	3483.0	Fruitland
3791.0	3968.2	Pictured Cliffs
3906.0	4083.6	Lewis
4483.0	4660.7	Huerfano Bentonite
4808.0	4985.7	Chacra
5546.0	5723.7	Mass. Cliffhouse
5639.0	5816.7	Menefee
5971.0	6148.7	Point Lookout
6371.0	6548.7	Mancos
7246.0	7423.7	Upper Gallup
7968.0	8145.7	Greenhorn
8024.0	8201.7	Graneros
8092.0	8269.7	Two Wells
8169.0	8346.7	Upper cubero
8202.0	8379.7	Lower Cubero
8263.0	8440.7	Encinal



BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 30-6 UNIT 104N

788' FSL & 597' FEL (SURFACE)

1380' FSL & 1550' FEL (BOTTOM HOLE LOCATION)

LATITUDE: 36.7785755° N

LONGITUDE: 107.5693456° W

NAD 83

SECTION 28, T-30-N, R-07-W, N.M.P.M.

RIO ARRIBA COUNTY, NEW MEXICO

FROM THE INTERSECTION OF U.S. HIGHWAY 64 AND

U.S. HIGHWAY 550 IN BLOOMFIELD, NEW MEXICO.

TRAVEL EASTERLY 32.4 MILES ON U.S. HIGHWAY 64.

TURN LEFT ONTO NM ROAD 539 AND TRAVEL NORTHERLY 4.1 MILES.

TURN RIGHT ONTO A DIRT ROAD & TRAVEL EASTERLY 2.1 MILES.

TURN LEFT AT A TEE INTERSECTION NEAR A LAUNCHER ASSEMBLY

AND TRAVEL NORTHERLY TOWARD SMITH PASS 1.0 MILE.

TURN RIGHT AT A TEE INTERSECTION AND

TRAVEL SOUTHEASTERLY 1.0 MILE

TURN RIGHT AND TRAVEL SOUTHWESTERLY 0.3 MILE

TURN RIGHT AGAIN AND TRAVEL SOUTHWESTERLY 0.3 MILE

TO PROPOSED SAN JUAN 30-6 UNIT 104N LOCATION.