

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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NOV 16 2009

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OIL CONVS. DIV.
NOV 16 2009

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Bureau of Land Management
Farmington Field Office

1a. Type of Work DRILL	5. Lease Number NM-013656 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 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 9. Well Number 99N	
4. Location of Well Surf: Unit D (NWNW), 608' FNL & 1046' FWL Bottomhole: Unit D (NWNW), 615' FNL & 270' FWL Surf: Latitude: 36.65236° N (NAD83) Longitude: 107.42396° W Bottomhole: Latitude: 36.65234° N (NAD83) Longitude: 107.42660° W	10. Field, Pool, Wildcat Basin DK/Blanco MV 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 24, T28N, R6W API # 30-039- 30850	
14. Distance in Miles from Nearest Town 27 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 280.00	17. Acres Assigned to Well MV/DK 320.00 (N/2) MV 320 W/2	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 500' from San Juan 28-6 Unit 99M (MV/DK)		
19. Proposed Depth 7745'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6464' 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>11/16/2009</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

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

Hold C104

for Directional Survey and "As Drilled" plat

NMOCD

P.A.

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

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

DEC 18 2009

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

DISTRICT I
1625 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, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised October 12, 2005

RECEIVED

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

OIL CONSERVATION DIVISION

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

NOV 16 2009

Bureau of Land Management
Farmington Field Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-30850		*Pool Code 72319 / 71599	*Pool Name BLANCO MESAVERDE / BASIN DAKOTA
*Property Code 7462	*Property Name SAN JUAN 28-6 UNIT		*Well Number 99 N
*GRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP		*Elevation 6464'

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
D	24	28N	6W		608'	NORTH	1046'	WEST	RIO ARRIBA

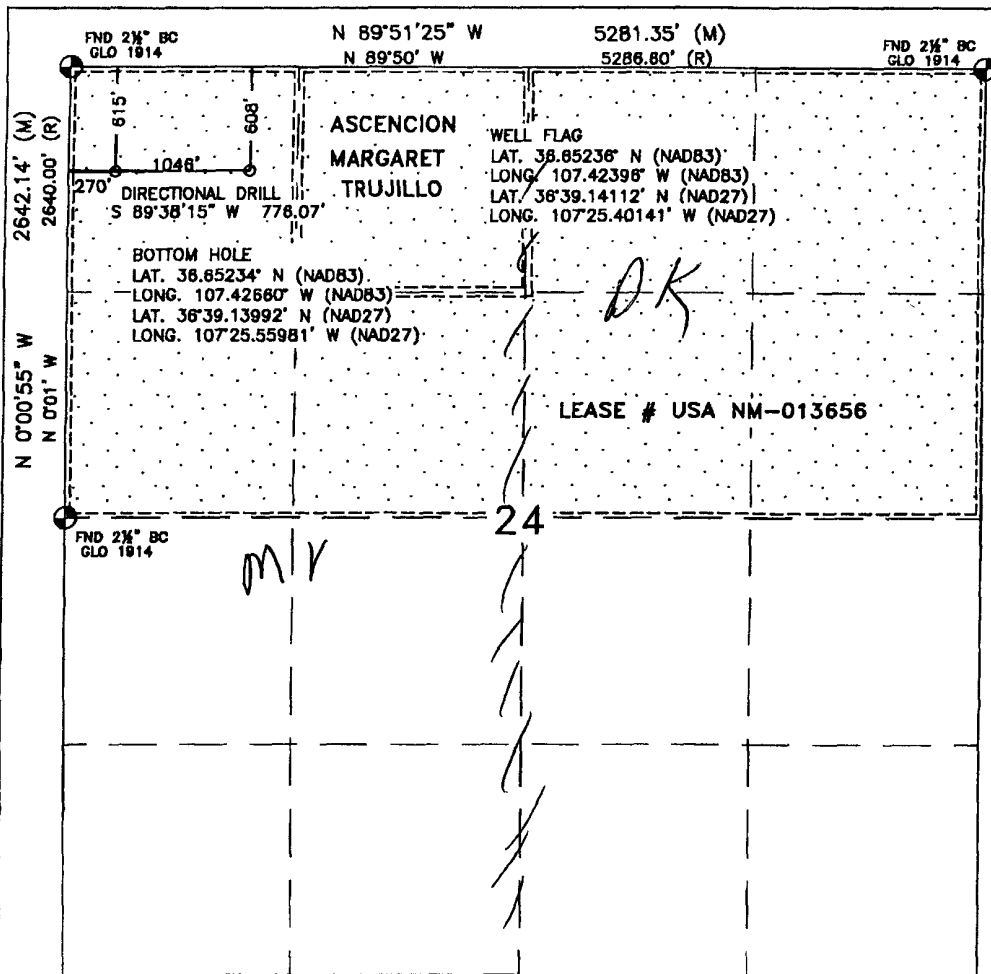
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	24	28N	6W		615'	NORTH	270'	WEST	RIO ARRIBA

¹² Dedicated Acres 320 Ac w/2 MV 320.00 ACRES - N/2 DK	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.

Crystal Tafoya 11/10/09
Signature Date

Crystal Tafoya 11/10/09

Printed Name

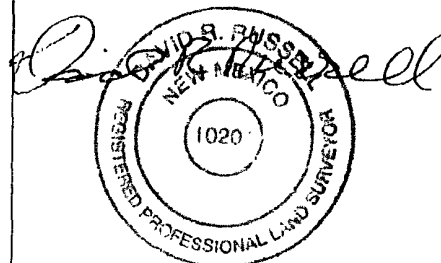
¹⁸ SURVEYOR CERTIFICATION

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.

JUNE 29, 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 28-6 UNIT 99N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9012		AFE \$: 1,629,339.52	
Field Name: SAN JUAN 28-6 UNIT		Rig: H&P Rig 283		State: NM	County: RIO ARRIBA
Geologist:		Phone:		Geophysicist:	
Geoscientist:		Phone:		Prod. Engineer:	
Res. Engineer:		Phone:		Proj. Field Lead:	
Primary Objective (Zones):					
Zone	Zone Name				
R20002	MESAVERDE(R20002)				
R20076	DAKOTA(R20076)				
Location: Surface					
Datum Code: NAD 27		Directional			
Latitude: 36.652352	Longitude: -107.423357	X:	Y:	Section: 24	Range: 006W
Footage X: 1046 FWL	Footage Y: 608 FNL	Elevation: 6464	(FT)	Township: 028N	
Tolerance:					
Location: Bottom Hole					
Datum Code: NAD 27		Directional			
Latitude: 36.652332	Longitude: -107.425997	X:	Y:	Section: 24	Range: 006W
Footage X: 270 FWL	Footage Y: 615 FNL	Elevation:	(FT)	Township: 028N	
Tolerance:					
Location Type: Year Round		Start Date (Est.): 1/1/2010		Completion Date:	
Date In Operation:					
Formation Data: Assume KB = 6479 Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT
Surface Casing	210	6269	☐		
NACIMIENTO	1213	5266	☐		
OJO ALAMO	2616	3863	☐		
KIRTLAND	2709	3770	☐		
FRUITLAND	2980	3499	☐		Possible Gas
PICTURED CLIFFS	3313	3166	☐		
LEWIS	3471	3008	☐		
Intermediate Casing	3571	2908	☐		
HUERFANITO BENTONITE	4089	2390	☐		
CHACRA	4268	2211	☐		
UPPER CLIFF HOUSE	4894	1585	☐		Gas; Est. Top Perf - 4895 (1583)
MASSIVE CLIFF HOUSE	5015	1464	☐	587	Gas
MENEFEE	5153	1326	☐		
POINT LOOKOUT	5453	1026	☐		
MANCOS	5995	484	☐		
UPPER GALLUP	6697	-218	☐		
GREENHORN	7433	-954	☐		
GRANEROS	7493	-1014	☐		
TWO WELLS	7542	-1063	☐	2225	Gas
PAGUATE	7617	-1138	☐		
UPPER CUBERO	7633	-1154	☐		
LOWER CUBERO	7675	-1196	☐		Est. Btm Perf - 7724 (-1246) based on offset wells

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-6 UNIT 99N

DEVELOPMENT

Total Depth	7745	-1266	☐	6-1/4" hole, 4-1/2" 11.6 ppf, J-55 & L-82, LTC casing. Cement w/ 568 cuft. Circulate cement a minimum of 100' inside the previous casing string.
ENCINAL	7765	-1286	☐	TD - 70' below T/CBRL

Reference Wells:		
Reference Type	Well Name	Comments
Production	SJ 28-6 138	28N 6W 23 SW NE
Production	SJ 28-6 99M	28N 6W 24 SE NW
Production	SJ 28-6 57	28N 6W 13 NE SW SW
Production	SJ 28-6 138N	28N 6W 23 SE SE NE

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

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
Company: ConocoPhillips SJB
Project: San Juan Basin - New Mexico Wells
Site: San Juan 28 Wells
Well: SJ 28-6 #99N
Wellbore: Wellbore #1
Design: Plan #1

Local Co-ordinate Reference: Well SJ 28-6 #99N
TVD Reference: RKB @ 6479.0ft (Original Well Elev)
MD Reference: RKB @ 6479.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,801.5	2,709.0	Kirtland		0.00	
5,134.4	5,015.0	Mass. Cliffhouse		0.00	
1,217.8	1,213.0	Nacimiento		0.00	
4,208.4	4,089.0	Huerfanto Bentonite		0.00	
5,572.4	5,453.0	Point Lookout		0.00	
5,272.4	5,153.0	Menefee		0.00	
3,089.5	2,980.0	Fruitland		0.00	
7,794.4	7,675.0	Lower Cubero		0.00	
7,736.4	7,617.0	Paguate		0.00	
7,552.4	7,433.0	Greenhorn		0.00	
4,387.4	4,268.0	Chacra		0.00	
7,752.4	7,633.0	Upper Cubero		0.00	
6,114.4	5,995.0	Mancos		0.00	
3,590.3	3,471.0	Lewis		0.00	
2,702.6	2,616.0	Ojo		0.00	
6,816.4	6,697.0	Upper Gallup		0.00	
3,431.6	3,313.0	Pictured Cliffs		0.00	
5,013.4	4,894.0	Upper Cliffhouse		0.00	
7,612.4	7,493.0	Graneros		0.00	
6,598.4	6,479.0	Encinal		0.00	
7,661.4	7,542.0	Two Wells		0.00	

REFERENCE INFORMATION

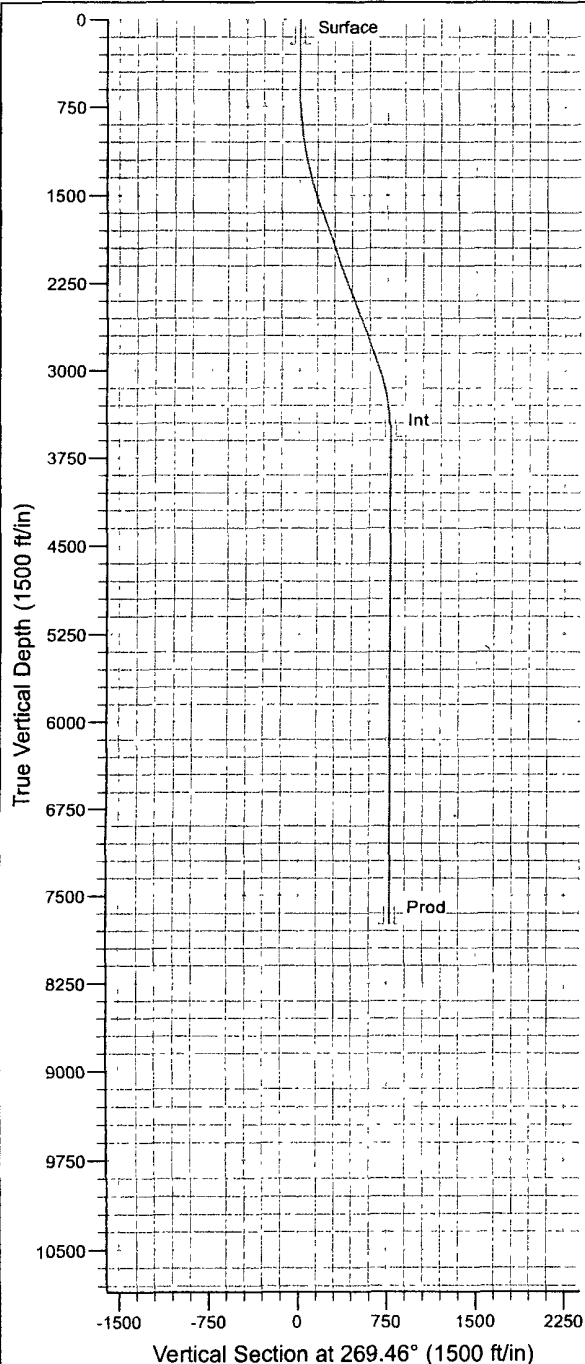
RKB @ 6479.0ft (Original Well Elev)
Ground Elevation 6464.0
Reference Lat: 36° 39' 8.467 N
Reference Long: 107° 25' 24.085 W

Project: San Juan Basin - New Mexico Wells
Site: San Juan 28 Wells
Well: SJ 28-6 #99N
Wellbore: Wellbore #1
Design: Plan #1



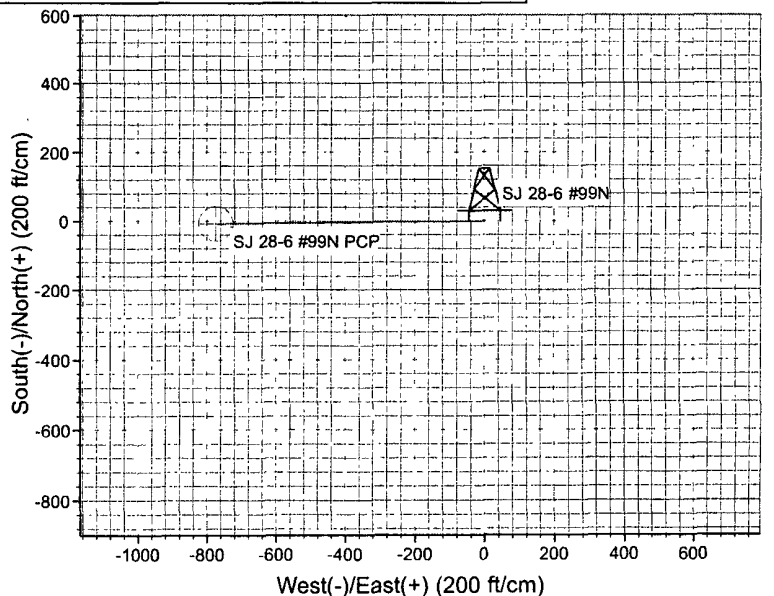
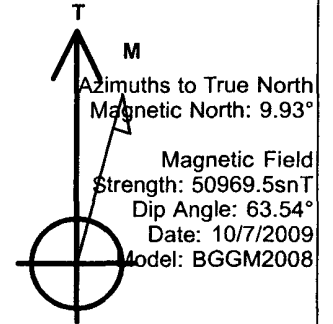
SECTION DETAILS

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	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1599.2	19.98	269.46	1579.1	-1.6	-172.5	2.00	269.46	172.5	
4	3024.2	19.98	269.46	2918.3	-6.2	-659.5	0.00	0.00	659.5	
5	3690.4	0.00	0.00	3571.0	-7.3	-774.5	3.00	180.00	774.5	SJ 28-6 #99N ICP
6	7864.4	0.00	0.00	7745.0	-7.3	-774.5	0.00	0.00	774.5	SJ 28-6 #99N PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
938.0	1217.8	Nacimiento
2341.0	2702.6	Ojo
2434.0	2801.5	Kirtland
2705.0	3089.5	Fruitland
3038.0	3431.6	Pictured Cliffs
3196.0	3590.3	Lewis
3814.0	4208.4	Huerfano Bentonite
3993.0	4387.4	Chacra
4619.0	5013.4	Upper Cliffhouse
4740.0	5134.4	Mass. Cliffhouse
4878.0	5272.4	Menefee
5178.0	5572.4	Point Lookout
5720.0	6114.4	Mancos
6204.0	6598.4	Encinal
6422.0	6816.4	Upper Gallup
7158.0	7552.4	Greenhorn
7218.0	7612.4	Graneros
7267.0	7661.4	Two Wells
7342.0	7736.4	Paguate
7358.0	7752.4	Upper Cubero
7400.0	7794.4	Lower Cubero



BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 28-6 UNIT #99 N

608' FNL & 1046' FWL

LOCATED IN THE NW/4 NW/4 OF SECTION 24,

T28N, R6W, N.M.P.M.,

RIO ARriba COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM POST OFFICE IN BLANCO, NM, TRAVEL EAST ON HWY 64 FOR 22.4 MILES.
- 2) TURN RIGHT (FOURMILE CANYON ROAD) & GO 3.3 MILES TO "Y" INT.
- 3) TURN LEFT & GO 0.9 MILES.
- 4) TURN RIGHT, GO THROUGH CATTLE GUARD AND TRAVEL 0.1 MILES WHERE ACCESS IS FLAGGED ON RIGHT.

WELL FLAG LOCATED AT LAT. 36.65236° N, LONG. 107.42396° W (NAD 83).

