

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RCVD JAN 8 '10
OIL CONS. DIV.

DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

RECEIVED

1a. Type of Work DRILL	DEC 15 2009	5. Lease Number SF-079051 Unit Reporting Number
1b. Type of Well GAS	Bureau of Land Management Farmington Field Office	6. If Indian, All. or Tribe
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP		7. Unit Agreement Name <i>NMNM-96751 FC</i> <i>NMNM-78412B-PC</i> 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 466S
4. Location of Well Surf: Unit J(NWSE), 2102' FSL & 2075' FEL Bottomhole: Unit J(NWSE), 1930' FSL & 1930' FEL Surf: Latitude: 36.81612° N (NAD83) Longitude: 107.45253° W Bottomhole: Latitude: 36.81565° N (NAD83) Longitude: 107.45203° W		10. Field, Pool, Wildcat Basin FC / South Blanco PC 11. Sec., Twn, Rge, Mer. (NMPM) <i>J</i> Sec. 34, T28N, R6W API # 30-039- 30881
14. Distance in Miles from Nearest Town 29 miles / Blanco	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1930'		
16. Acres in Lease 1,753.380	17. Acres Assigned to Well 324.63 E/2 (FC) / 160.00 SE/4 (PC) <i>164.63 cm</i>	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 72' from San Juan 28-6 Unit 155M (MV)		
19. Proposed Depth 3651'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6671' 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 <i>12/15/2009</i>	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <i>Crystal Tafoya</i> Crystal Tafoya (Regulatory Technician)	Date	

PERMIT NO.

APPROVAL DATE

APPROVED BY *DJ Montero*

TITLE

AFM

DATE

1/5/2010

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 2

Bond Numbers NMB-000015 and NMB-000089

JAN 13 2010

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

NMOC

Hold C104

for Directional Survey
and "As Drilled" plat

This action is subject to technical and
procedural review pursuant to 43 CFR 3165.9
and appeal pursuant to 43 CFR 3165.4

DISTRICT II
1901 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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-30881		*Pool Code 71629 / 72439	*Pool Name BASIN FRUITLAND COAL/BLANCO PICTURED CLIFF	SOUTH
*Property Code 7462	*Property Name SAN JUAN 28-6 UNIT			*Well Number 466 S
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP			*Elevation 6671'

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
J	34	28N	6W		2102'	SOUTH	2075'	EAST	RIO ARRIBA

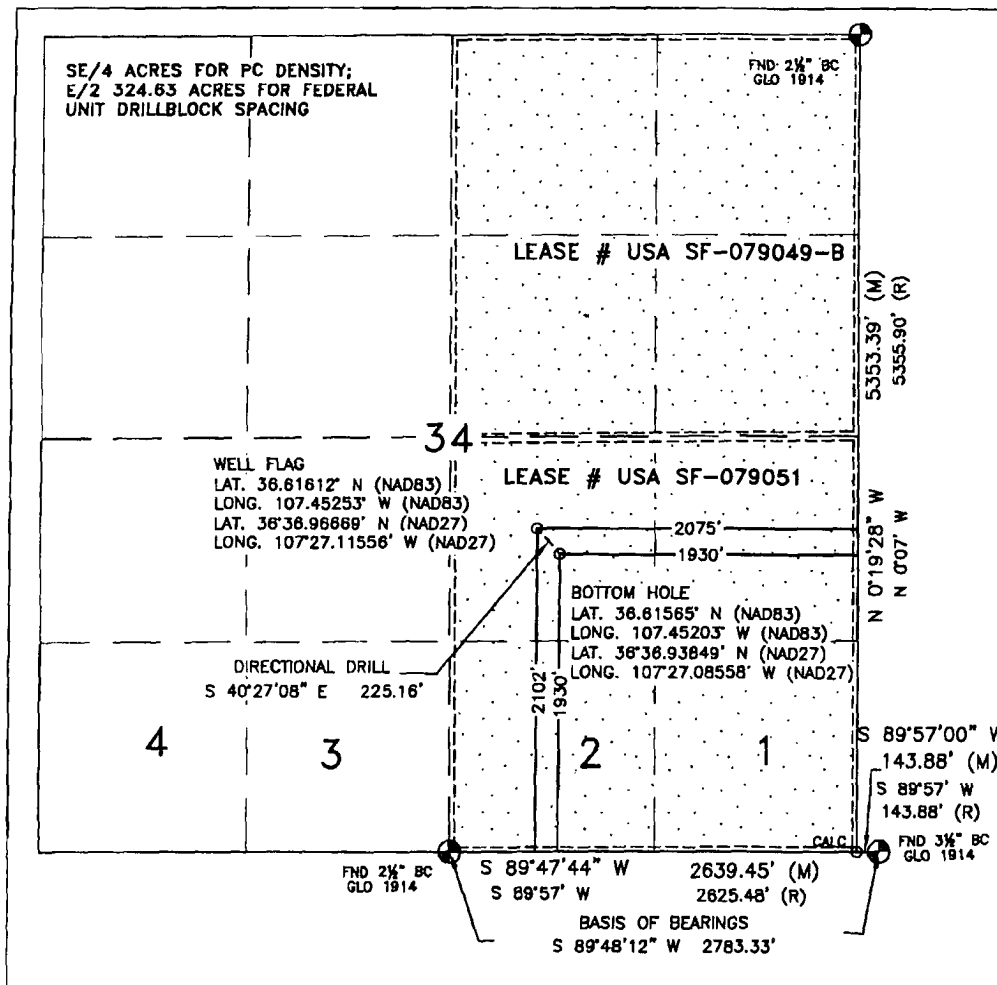
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	34	28N	6W		1930'	SOUTH	1930'	EAST	RIO ARriba

¹³ Dedicated Acres PC-160 Acres (SE/4) 164 FC-324.63 Acres (E/2)	¹³ Joint or Infill 163cm	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

18



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 lands 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 Estal Tanya Date 12/10/09

Crystal Tafoya 12/10/09
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.

JULY 27, 2009

Date of Survey _____

Signature and Seal of Professional Surveyor:

DAVID R. RUSSELL
NEW MEXICO
REGISTERED PROFESSIONAL LAND SURVEYOR
1020

DAVID RUSSELL

Certificate Number 10201

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-6 UNIT 466S

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9149		AFE \$: 935,926.20	
Field Name: SAN JUAN 28-6 UNIT		Rig: XXX Must be 2011		State: NM	County: RIO ARRIBA
Geologist:		Phone:	Geophysicist:		Phone:
Geoscientist:		Phone:	Prod. Engineer:		Phone:
Res. Engineer:		Phone:	Proj. Field Lead:		Phone:

Primary Objective (Zones):

Zone	Zone Name
JCV	BASIN FRUITLAND COAL (GAS)
UPL	BLANCO PICTURED CLIFFS

Location: Datum Code: NAD 27

Latitude: 36.616112	Longitude: -107.451926	X:	Y:	Section: 34	Range: 006W
Footage X: 2075 FEL	Footage Y: 2102 FSL	Elevation: 6671	(FT)	Township: 028N	
Tolerance:					

Location: Datum Code: NAD 27

Latitude: 36.615642	Longitude: -107.451426	X:	Y:	Section: 34	Range: 006W
Footage X: 1930 FEL	Footage Y: 1930 FSL	Elevation:	(FT)	Township: 028N	
Tolerance:					

Location Type: Year Round	Start Date (Est.): 1/1/2011	Completion Date:	Date In Operation:
Formation Data: Assume KB = 6686 Units = FT			

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	120	6566	☐			8-3/4 hole. 7" 20 ppf, J-55 STC csg. Cement with 50 cuft. Circulate cement to surface.
NACIMIENTO	1279	5407	☐			
OJO ALAMO	2728	3958	☐			
KIRTLAND	2847	3839	☐			
FRUITLAND	3070	3616	☐	825		Gas
PICTURED CLIFFS	3451	3235	☐			Gas
Total Depth	3651	3035	☐			6-1/4" hole. 4-1/2" 10.5 ppf, J-55, STC casing. Cement with 491 cuft. Circulate cement to surface.

Reference Wells:

Reference Type	Well Name	Comments
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Logging Program:

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

TD Logs:	☐ Triple Combo	☐ Dipmeter	☐ RFT	☐ Sonic	☐ VSP	☐ TDT	☒ Other
No OH logs or mudloggers required.							

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 28-6 #466S
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6686.0ft (KB)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	WELL @ 6686.0ft (KB)
Site:	San Juan 28 Wells	North Reference:	True
Well:	SJ 28-6 #466S	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 28-6 #466S		
Design:	APD Well Plan		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
3,670.6	0.00	0.00	3,651.0	-171.1	146.7	225.4	0.00	0.00	0.00	
4 1/2"										

Targets										
Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Fruitland	- plan hits target center - Point	0.00	0.00	2,850.0	-171.1	146.7	2,043,567.35	612,081.69	36° 36' 56.309 N	107° 27' 5.135 W

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")		
120.0	120.0	7"	7	8-3/4		
3,670.6	3,651.0	4 1/2"	4-1/2	6-1/4		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,470.6	3,451.0	Picture Cliffs		0.00		
2,866.6	2,847.0	Kirtland		0.00		
3,089.6	3,070.0	Fruitland		0.00		
1,279.0	1,279.0	Nacimiento		0.00		
2,747.5	2,728.0	Ojo Alamo		0.00		

REFERENCE INFORMATION

WELL @ 6686.0ft (KB)
Ground Elevation 6671.0
Reference Lat: 36° 36' 58.001 N
Reference Long: 107° 27' 6.934 W

Project: San Juan Basin - New Mexico Wells

Site: San Juan 28 Wells

Well: SJ 28-6 #466S

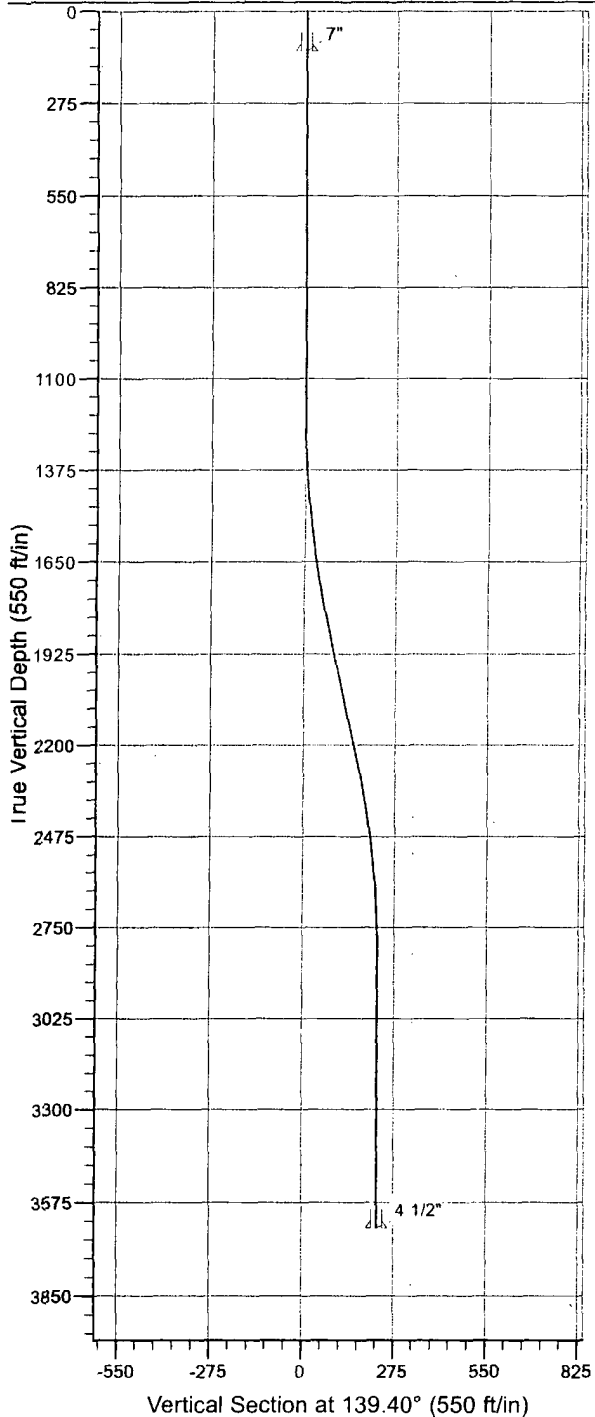
Wellbore: SJ 28-6 #466S

Design: APD Well Plan



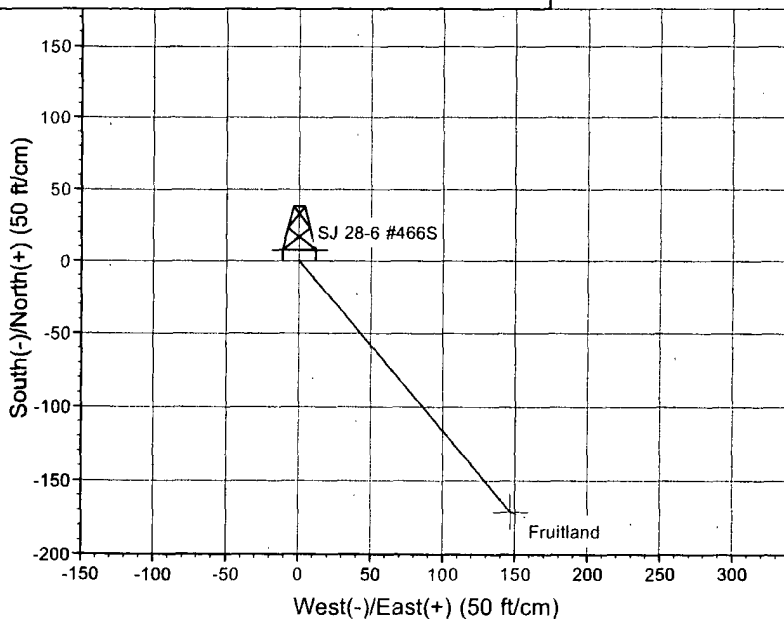
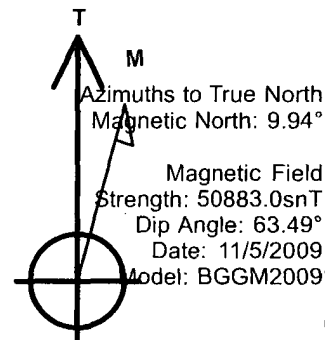
SECTION DETAILS

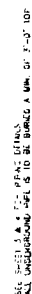
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
3	1816.4	12.33	139.40	1811.7	-50.2	43.0	2.00	139.40	66.1	
4	2253.2	12.33	139.40	2238.3	-121.0	103.7	0.00	0.00	159.3	
5	2869.6	0.00	0.00	2850.0	-171.1	146.7	2.00	180.00	225.4	Fruitland
6	3670.6	0.00	0.00	3651.0	-171.1	146.7	0.00	0.00	225.4	



FORMATION TOP DETAILS

TVDPPath	MDPath	Formation
1279.0	1279.0	Nacimiento
2728.0	2747.5	Ojo Alamo
2847.0	2866.6	Kirtland
3070.0	3089.6	Fruitland
3451.0	3470.6	Picture Cliffs





10

SAN JUAN BUSINESS UNIT

STATIONARY
PRESSURE 3 PHASE
FACILITY DIAGRAM - SEE LATER

[illegible]

BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 28-6 UNIT #466S

2102' FSL & 2075' FEL

LOCATED IN THE NW/4 SW/4 OF SECTION 34,

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

RIO ARriba COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM THE POST OFFICE IN BLANCO, TRAVEL EASTERLY ON HWY 64 FOR 22.4 MILES.
- 2) TURN RIGHT ONTO FOUR-MILE CANYON ROAD AND GO 3.3 MILES TO "Y" INTERSECTION.
- 3) CONTINUE TO THE RIGHT AND GO 2.1 MILES TO CROSSROADS.
- 4) CONTINUE STRAIGHT FOR 1 MILE.
- 5) TURN RIGHT AND GO 0.4 MILES TO EXISTING LOCATION WHERE PAD IS TWINNED.

WELL FLAG LOCATED AT LAT. 36.61612°N, LONG. 107.45253°W (NAD 83).

