

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	RECEIVED FEB 14 2008 Bureau of Land Management Farmington Field Office	5. Lease Number USA SF- 080672 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 27-4 Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700		8. Farm or Lease Name 9. Well Number #154M
4. Location of Well Surf: Unit F (SENW), 1565' FNL & 2230' FWL Unit G (SWNE), 2010' FNL & 1415' FWL Surf: Latitude 36.345648 N. Longitude 107.132795 W. Latitude 36.574867 N. Longitude 107.216605 W.		10. Field, Pool, Wildcat Basin Dakota/Blanco Mesaverde 11. Sec., Twn, Rge, Mer. (NMPM) P Sec. 14, T27N, R4W G Sec. 14, T27N, R4W API # 30-039- 30486
14. Distance in Miles from Nearest Town 54 miles/Blanco	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 2010'		
16. Acres in Lease 2560.00	17. Acres Assigned to Well MV/DK 320.00 (E/2)	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 2333' from San Jaun 27-4 Unit 22		
19. Proposed Depth 8463'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 7134' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached	DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".	
24. Authorized by: <u>Jamie Goodwin</u> Jamie Goodwin (Regulatory Technician)	<u>2/13/08</u> 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 or its officers or employees any false or fraudulent statement, report, or presentation as to any matter within its jurisdiction.

Bond Numbers NMB-000015 and NMB-000089

A COMPLETE C-144 MUST BE SUBMITTED TO AND APPROVED BY THE NMOCD FOR: A PIT, CLOSED LOOP SYSTEM, BELOW GRADE TANK, OR PROPOSED ALTERNATIVE METHOD, PURSUANT TO NMOCD PART 19.15.17, PRIOR TO THE USE OR CONSTRUCTION OF THE ABOVE APPLICATIONS.

NMOCD

SEP 09 2008

Hold C104
for Directional Survey
and "As Drilled" plat

DISTRICT II
1301 West Grand Avenue, Artesia, N.M. 88210

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

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

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

FEB 14 2008

☐ AMENDED REPORT

Bureau of Land Management
DEDICATION PLATE

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number 30-039- 30486	'Pool Code 72319/71599	'Pool Name BLANCO MESAVERDE/BASIN DAKOTA
'Property Code 7452	'Property Name SAN JUAN 27-4 UNIT	'Well Number 154M
'OGRID No. 14538	'Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP	'Elevation 7134'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idm	Feet from the	North/South line	Feet from the	East/West line	County
F	14	27-N	4-W		1565'	NORTH	2230'	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
G	14	27-N	4-W		2010'	NORTH	1415'	EAST	RIO ARRIBA
²² Dedicated Acres 320.00 E/2			²³ Joint or Infill:		²⁴ Consolidation Code		²⁵ 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.

OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

SURFACE
LAT: 36°34.5848' N.
LONG: 107°13.2795' W.
NAD 1927

LAT: 36.578091' N.
LONG: 107.221923' W.
NAD 1983

USA SF-080672

BOTTOM HOLE
LAT: 36°34.4914' N.
LONG: 107°12.9604' W.
NAD 1927

LAT: 36.574867' N.
LONG: 107.216605' W.
NAD 1983

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 a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: _____
Sasha Spangler 11-12-07
Printed Name: _____

18 SURVEYOR CERTIFICATION

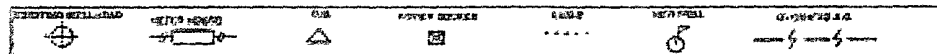
I hereby certify that the well location shown on this plan was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

11-8-07
Date of Survey: _____
Signature and Seal of Licensed Professional Surveyor: _____

Certificate Number: _____ 15703



WELL NAME ST 27-4 # 194 M LEGALS 1-14 27-4 COUNTY Pin. Arriba



COMMENTS: John must be able to maintain a full-time job, and should be drilled.

NEAREST POWER SOURCE _____ DISTANCE: _____
PIPELINES IN AREA: _____

TECHNICIAN: Michael Thompson DATE: 8/5/07

8 CR 5412 BLOOMFIELD, N.M. 87413
OFFICE: 505-634-3271 CELL: 505-793-6953

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 154M

DEVELOPMENT

Lease:		AFE #: WAN.ZA0.7007				AFE \$:	
Field Name: hBR_SAN JUAN 27-4 UNIT		Rig: XXX Deferred PDT		State: NM	County: RIO ARriba		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist: Head, Chip F		Phone: 505-326-9772		Prod. Engineer:		Phone:	
Res. Engineer: Prabowo, Wahyu		Phone: 505-326-9797		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
R20002	MESAVERDE(R20002)						
R20076	DAKOTA(R20076)						
Location: Surface Datum Code: NAD 27 Deviated							
Latitude: 36.576081	Longitude: -107.221325	X:	Y:	Section: 14		Range: 004W	
Footage X: 2230 FWL	Footage Y: 1565 FNL	Elevation: 7134	(FT)	Township: 027N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Deviated							
Latitude: 36.574857	Longitude: -107.216007	X:	Y:	Section: 14		Range: 004W	
Footage X: 1415 FWL	Footage Y: 2010 FNL	Elevation:	(FT)	Township: 027N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2020		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 7148 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	320	6828	☐			12-1/4 hole. 320' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 244 cu. ft. Circulate cement to surface.	
OJO ALAMO	3471	3677	☐				
KIRTLAND	3619	3529	☐				
FRUITLAND	3747	3401	☐			Possible Gas	
PICTURED CLIFFS	4047	3101	☐				
LEWIS	4162	2986	☐				
HUERFANITO BENTONITE	4574	2574	☐				
CHACRA	4994	2154	☐				
Intermediate Casing	5100	2048	☐			8 3/4" Hole. 7", 23 ppf, L-80, LTC Casing. Cement with 1216 cu. ft. Circulate cement to surface.	
UPPER CLIFF HOUSE	5559	1589	☐			Gas	
MASSIVE CLIFF HOUSE	5739	1409	☐	810		Gas	
MENEFEE	5870	1278	☐				
POINT LOOKOUT	6156	992	☐				
MANCOS	6476	672	☐				
GALLUP	7205	-57	☐				
GREENHORN	8145	-997	☐				
GRANEROS	8209	-1061	☐				
TWO WELLS	8255	-1107	☐	1250		Gas	
PAGUATE	8326	-1178	☐				
CUBERO	8357	-1209	☐				
LOWER CUBERO	8397	-1249	☐				
DAK CANYON	8442	-1294	☐				

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 154M

DEVELOPMENT

ENCINAL	8463	-1315	☐
Total Depth	8463	-1315	☐

6-1/4" hole, 4-1/2", 11.6 ppf, L-80, LTC casing. Cement w/ 460 cu. ft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:		
Reference Type	Well Name	Comments
Production	27-4 #33	SE 33-27N-4W
Production	SJ 27-4 #139M	SE 09-27N-4W
Production	SJ 27-4 #98	SW 10-27N-4W
Production	SJ 27-4 #22	SW 14-27N-4W
Production	SJ 27-4 #3A	SE 15-27N-4W
Production	SJ 27-4 #143A	SE 22-27N-4W

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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GR_CBL

Mudlog from 100' above Greenhorn 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 27-4 #154M
Company:	ConocoPhillips SJB	TVD Reference:	Generic Rig RKB @ 7149 0ft (Generic Rig)
Project:	San Juan Basin	MD Reference:	Generic Rig RKB @ 7149 0ft (Generic Rig)
Site:	Russell's Site for Directional MV/DK wells	North Reference:	True
Well:	SJ 27-4 #154M	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 27-4 #154M		
Design:	APD Directional Plan		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,684.4	3,471.0	Ojo Alamo		0.00	
3,847.1	3,619.0	Kirtland		0.00	
3,987.8	3,747.0	Fruitland		0.00	
4,317.5	4,047.0	Pictured Cliffs		0.00	
4,443.8	4,162.0	Lewis		0.00	
4,888.1	4,574.0	Huerfano Bentonite		0.00	
5,314.9	4,994.0	Chacra		0.00	
5,879.9	5,559.0	Upper Cliffhouse		0.00	
6,059.9	5,739.0	Mass Cliffhouse		0.00	
6,190.9	5,870.0	Menefee		0.00	
6,476.9	6,156.0	Pt Lookout		0.00	
6,796.9	6,476.0	Mancos Shale		0.00	
7,525.9	7,205.0	Gallup		0.00	
8,465.9	8,145.0	Greenhorn		0.00	
8,529.9	8,209.0	Graneros		0.00	
8,575.9	8,255.0	Two Wells		0.00	
8,646.9	8,326.0	Paguate		0.00	
8,677.9	8,357.0	Upper Cubero		0.00	
8,717.9	8,397.0	Lower Cubero		0.00	
8,762.9	8,442.0	Oak Canyon		0.00	
8,783.9	8,463.0	Encinal		0.00	
8,783.9	8,463.0	TD		0.00	

