

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

DEC 16 2008

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Bureau of Land Management
Farmington Field Office

1a. Type of Work DRILL	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 #154	
4. Location of Well Unit B (NWNE), 1120' FNL & 2445' FEL Unit O (SWSE), 385' FSL & 2015' FEL Surf: Latitude 36.582846 N. Longitude 107.220086W. Bottom: Latitude 36.566980 N. Longitude 107.218628 W.	10. Field, Pool, Wildcat Blanco Mesaverde 11. Sec., Twn, Rge, Mer. (NMPM) B Sec. 23, T27N, R4W C Sec. 14, T27N, R4W API # 30-039-30620	
14. Distance in Miles from Nearest Town 52 Miles/Blanco	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 2445'		
16. Acres in Lease 2560.000	17. Acres Assigned to Well MV 320.00 E/2	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 1505' from San Juan 27-4 Unit 109E		
19. Proposed Depth 6359'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6949' 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>Jamie Goodwin</u> Jamie Goodwin (Regulatory Technician)	<u>12/10/08</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 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

Hold C104

for Directional Survey
and "As Drilled" plat

NMOCU

16

FEB 05 2009

Aw

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

DISTRICT II
1301 West 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 DEC 1 5 1968
1220 South St. Francis Dr. State Lease - 4 Copies
Santa Fe, NM 87505 Bureau of Land Management Fee Lease - 3 Copies
Farmington Field Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039- 306 20		² Pool Code 72319	³ Pool Name BLANCO MESAVERDE
⁴ Property Code 7452	⁵ Property Name SAN JUAN 27-4 UNIT		⁶ Well Number 154
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS CO, LP		⁹ Elevation 6949'

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
B	23	27-N	4-W		1120'	NORTH	2445'	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
0	14	27-N	4-W		385'	SOUTH	2015'	EAST	RIO ARriba

¹³ Dedicated Acres	¹⁴ Joint or Infill	¹⁵ Consolidation Code	¹⁶ Order No.
320.00			

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

Surface

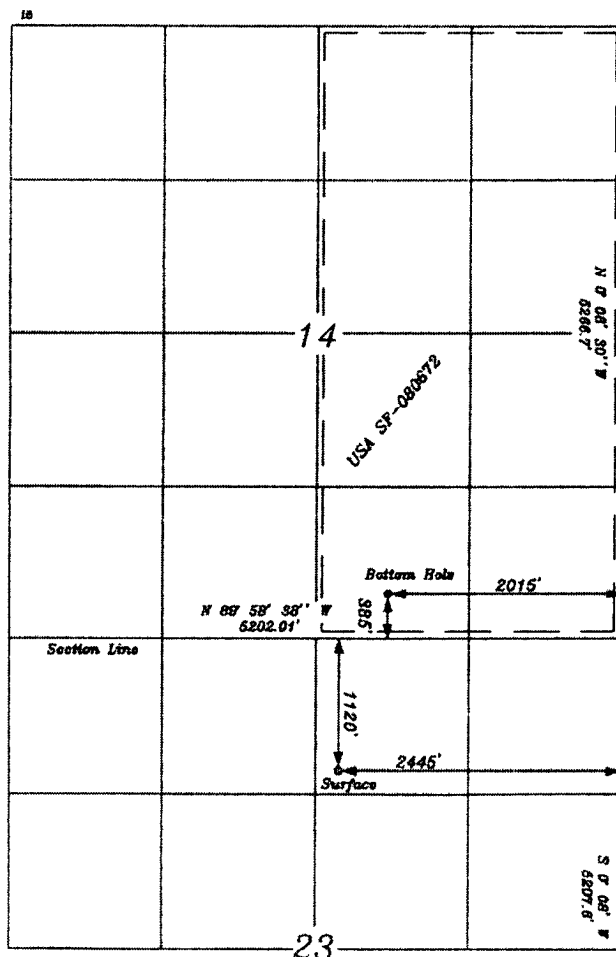
LAT: 36°33.7701' N.
LONG: 107°13.1693' W.
NAD 1927

LAT: 36.582846 N.
LONG: 107.220086 W.
NAD 1983

Bottom Hole

LAT: 36°34.0182' N.
LONG: 107°13.0818 W.
NAD 1927

LAT: 36.566980° N.
LONG: 107.218628° 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 working interest, or to a voluntary pooling agreement or compulsory pooling order heretofore entered by the division.

 12/09/08
Signature
James Gardenhire
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.

6-1507

Date of Survey _____

Signature and Seal of Professional Surveyor: _____

Galen H. Russell

Certificate Number 15703

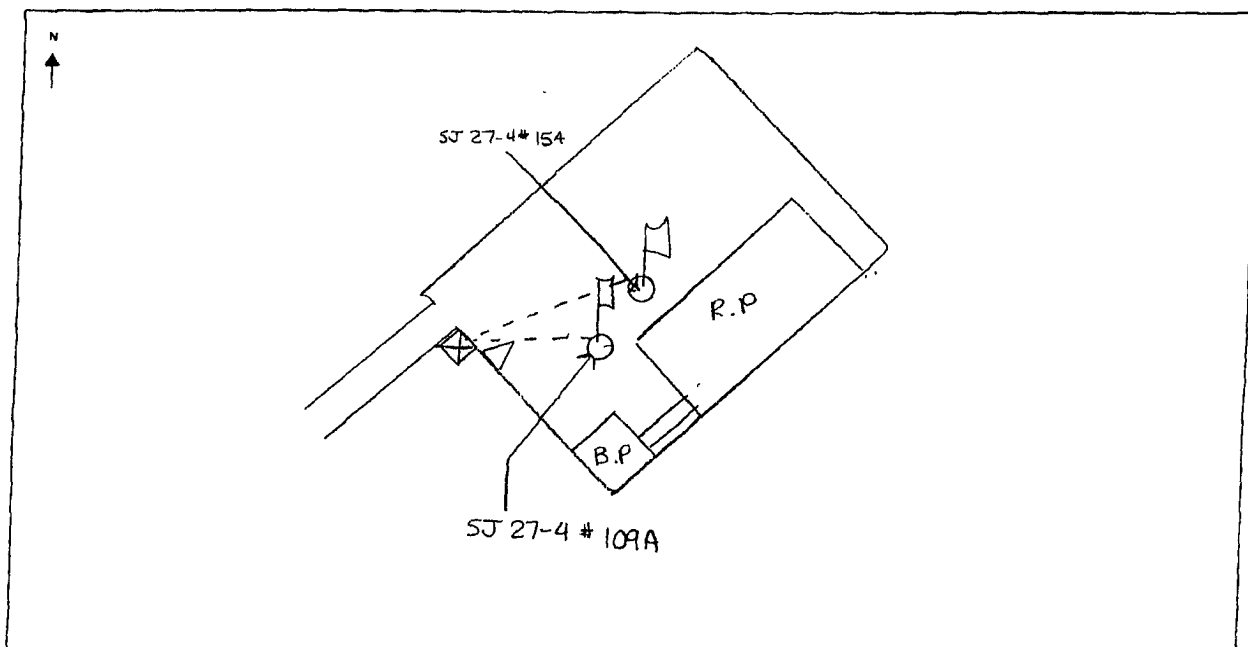


TECHNICAL SERVICES
A CORROSION COMPANY

CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME SJ 27-4 #154 LEGALS B-23-27-4 COUNTY Rio Arriba

PURPOSED C.P. SYSTEM: Drill GB and set solar on SW edge of location. Trench approx 225' of #8 neg from proposed SJ 27-4 #154 to solar. Trench approx 175' of #8 neg from proposed well (#109A) to solar.



EXISTING WELL HEAD	METER HOUSE	G.B.	POWER SOURCE	CABLE	NEW WELL	OVERHEAD A.C.

COMMENTS: set solar + GB on location drilled just / Use 3 well solar

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

TECHNICIAN: Michael Hingone DATE: 9/25/2007

6 CR 5412 BLOOMFIELD, N.M. 87413
OFFICE: 505-634-0271 CELL: 505-793-6953

Handwritten signature

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 154

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8396				AFE \$: 915,844.02	
Field Name: hBR_SAN JUAN 27-4 UNIT		Rig: XXX Deferred PDT		State: NM	County: RIO ARRIBA		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist:		Phone:		Prod. Engineer:		Phone:	
Res. Engineer: Prabowo, Wahyu		Phone: +1-505-326-9797		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
R20002	MESAVERDE(R20002)						
Location: Datum Code: NAD 27							
Latitude: 36.562836	Longitude: -107.219488	X:	Y:	Section: 23	Range: 004W		
Footage X: 2445 FEL	Footage Y: 1120 FNL	Elevation: 6949	(FT)	Township: 027N			
Tolerance:							
Location: Datum Code: NAD 27							
Latitude: 36.566970	Longitude: -107.218030	X:	Y:	Section: 14	Range: 004W		
Footage X: 2015 FEL	Footage Y: 385 FSL	Elevation:	(FT)	Township: 027N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2020		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6964 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	6764	☐			12-1/4" hole. 9-5/8", 32.3 ppf, H-40, STC casing. Cement with 159 cubic ft. Circulate cement to surface.	
OJO ALAMO	3249	3715	☐				
KIRTLAND	3439	3525	☐				
FRUITLAND	3534	3430	☐			Possible Gas	
PICTURED CLIFFS	3824	3140	☐				
LEWIS	3949	3015	☐				
HUERFANITO BENTONITE	4348	2616	☐				
Intermediate Casing	4500	2464	☐			8-3/4" hole. 7", 23 ppf, L-80, LTC casing. Cement with 1087 cubic ft. Circulate cement to surface.	
CHACRA	4791	2173	☐				
UPPER CLIFF HOUSE	5357	1607	☐			Gas	
MASSIVE CLIFF HOUSE	5532	1432	☐	861		Gas	
MENEFEE	5661	1303	☐			Gas	
POINT LOOKOUT	5966	998	☐			Gas	
Total Depth	6359	605	☐			6-1/4" hole. 4-1/2", 11.6 ppf, L-80, LTC casing. Cement with 260 cubic ft. Circulate cement a minimum of 100' inside the previous casing string.	
Reference Wells:							
Reference Type	Well Name		Comments				
Intermediate	SJ 27-4 #22		SW 14-27N-4W				
Production	SJ 27-4 #143A		SE 22-27N-4W				
Production	SJ 27-4 #98		SW 10-27N-4W				
Production	SJ 27-4 #32		NW 23-27N-4W				
Production	SJ 27-4 #3A		SE 15-27N-4W				

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 27-4 UNIT 154

DEVELOPMENT

Production	SJ 27-4 #139M	SE 09-27N-4W
Production	SJ 27-4 #22	SW 14-27N-4W

Logging Program:

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

TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other

GR_CBL

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 28-7 #154
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6964 0ft (Generic Rig RKB)
Project:	La Plata County, CO	MD Reference:	WELL @ 6964 0ft (Generic Rig RKB)
Site:	Russell's Site for Directional MV/DK wells	North Reference:	True
Well:	SJ 28-7 #154	Survey Calculation Method:	Minimum Curvature
Wellbore Design:	Principal APD plan		

Targets									
Target Name	- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	
	- Shape	(°)	(°)	(ft)	(ft)	(ft)	(m)	(m)	Latitude Longitude
SJ 27-4 154 - PCP	- plan hits target	0.00	0 00	6,359 0	1,505 4	428.3	295,149 82	760,594 11	36° 34' 1 092 N 107° 13' 4 908 W
	- Point								
SJ 27-4 154 - ICP	- plan hits target	0 00	0 00	4,500 0	1,505 4	428 3	295,149 83	760,594 11	36° 34' 1 092 N 107° 13' 4 908 W
	- Point								

Casing Points					
Measured Depth	Vertical Depth		Casing Diameter	Hole Diameter	
(ft)	(ft)	Name	(in)	(in)	
200.0	200.0	9 5/8"	9 625	12 250	
4,825.1	4,500 0	7"	7 000	8.750	
6,684.1	6,359 0	4 1/2"	4 500	6 250	

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
3,500.2	3,249 0	Ojo Alamo		0.00		
3,710 7	3,439 0	Kirtland		0 00		
3,815 9	3,534.0	Fruitland		0 00		
4,134.2	3,824 0	Pictured Cliffs		0 00		
4,266.2	3,949 0	Lewis		0 00		
4,673 0	4,348 0	Huerfano Bentonite		0 00		
5,116.1	4,791 0	Chacra		0 00		
5,682 1	5,357 0	Upper Cliffhouse		0 00		
5,857 1	5,532 0	Mass Cliffhouse		0 00		
5,986 1	5,661 0	Menefee		0.00		
6,291 1	5,966 0	Pt Lookout		0 00		
6,611 1	6,286 0	Mancos Shale		0 00		

Directions from the Post Office
In Blanco, NM
to
Burlington Resources Oil & Gas Company LP
SAN JUAN 27-4 UNIT 154
1120' FNL & 2445' FEL,
Section 23, T27N, R4W, N.M.P.M., Rio Arriba County,
New Mexico

From the Post Office In Blanco, NM
Take Highway 64 East for 27.6 miles

Turn right (southerly) on General American for 1.1 miles,
Turn right (southerly) 3.4 miles to the
Four Corners Intersection,
Continue straight (southerly) 3.9 miles,
Turn left (southeasterly) @ y-intersection 3.6 miles,
Turn right (southerly) 0.5 miles,
Turn left (southerly) 0.7 miles across Cotton Wood Crossing,
Turn left (easterly) 1.8 miles,
Stay left (northerly) @ y-intersec 0.7 miles,
Stay right (easterly) 1.1 miles, around water hole,
Turn right (southeasterly) 0.6 miles,
Turn left (easterly-southeasterly) on forest road 315 6.0 miles,
To forest road 314,
Turn left (northerly) on forest road 314 through
Ahogadero Canyon 1.4 miles,
To beginning on new access on the right (east) side of road,
Which continues for 500' to the newly staked location.