

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

FEB 15 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 RCVD SEP 3 '08 OIL CONS. DIV.	
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name DIST. 3 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 #154N	
4. Location of Well Unit F (SENW), 1525' FNL & 2135' FWL Unit B (NWNE), 710' FNL & 1890' FWL Latitude 36.576201 N. Longitude 107.222263 W. Latitude 36.578439 N. Longitude 107.218231 W.	10. Field, Pool, Wildcat Blanco Mesaverde/Basin Dakota 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 14, T27N, R4W Sec. 14, T27N, R4W API # 30-039- 30489	
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 1525'	17. Acres Assigned to Well MV/DK 320.0 (E/2)	
16. Acres in Lease 2560.00	20. Rotary or Cable Tools Rotary	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 2318' from San Juan 27-4 Unit 22	22. Approx. Date Work will Start	
19. Proposed Depth 8465	NOTIFY AZTEC OCD 24 HRS. PRIOR TO CASING & CEMENT	
21. Elevations (DF, FT, GR, Etc.) 7134' GL	24. Authorized by: <u>Jamie Goodwin</u> Jamie Goodwin (Regulatory Technician)	
23. Proposed Casing and Cementing Program See Operations Plan attached	Date <u>2/14/08</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, Title 18 U.S.C. Section 1001, makes it a crime for any person to make any false, fictitious or fraudulent statements or representations.

Example Master Plan Type 3

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS

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.

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS", or agency of the United

NMOCD

Hold C104
for Directional Survey
and "As Drilled" plat

B-000089 SEP 09 2008

This action is subject to technical and procedural review pursuant to 43 CFR 31.105 and appeal pursuant to 43 CFR 31.65.4

RECEIVED

DISTRICT I
1626 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
FEB 15 2008 Revised October 12, 2005

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
Bureau of Land Management
Farmington Field Office
State Lease - 4 Copies
Fee Lease - 3 Copies

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039- 30489	² Pool Code 72319/71599	³ Pool Name BLANCO MESAVERDE/BASIN DAKOTA
⁴ Property Code 7452	⁵ Property Name SAN JUAN 27-4 UNIT	⁶ Well Number 154N
⁷ OGROD No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP	⁹ Elevation 7134'

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
F	14	27-N	4-W		1525'	NORTH	2135'	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
B	14	27-N	4-W		710'	NORTH	1890'	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

SURFACE
LAT: 36°34.5714' N.
LONG: 107°13.2993' W.
NAD 1927
LAT: 36.576201' N.
LONG: 107.222263' W.
NAD 1983

BOTTOM HOLE
LAT: 36°34.7068' N.
LONG: 107°13.0580' W.
NAD 1927
LAT: 36.578438' N.
LONG: 107.218231' W.
NAD 1983

USA SF-080672

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 undivided 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.

Jamie Goodwin
Signature
Jamie Goodwin 02/14/2008
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.

11-8
Date of Survey
Signature of Licensed Professional Surveyor
GLEN W. RUSSELL
15703
Certificate Number 15703

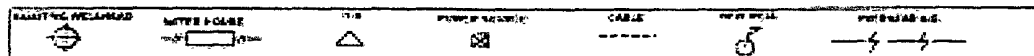
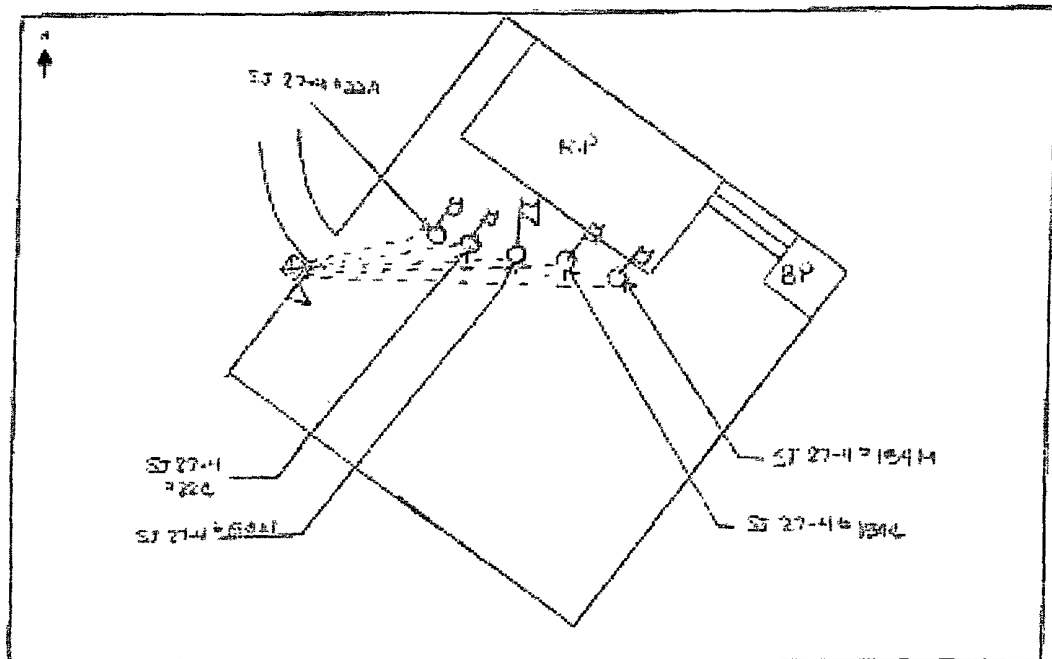


TECHNICAL SERVICES
A CORROSION COMPANY

CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME ST 27-4 #154M LEGALS F-11-27-9 COUNTY San Arriba

PURPOSED C.P. SYSTEM: Drill 60' and set 1/2" x 1/2" anode rod to mountain 500'.
Branch away 300' of 3/4" rod from the 154M to 204M. Terminal anode rod
apply



COMMENTS: _____

NEAREST POWER SOURCE N/A DISTANCE: _____
PIPELINES IN AREA: _____

TECHNICIAN: Michael H. Hargrave DATE: 12/1/2007

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 154N

DEVELOPMENT

Lease:		AFE #: WAN.ZA2.7572				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 Measured:							
Latitude: 36.576191	Longitude: -107.221655	X:	Y:	Section: 14		Range: 004W	
Footage X: 2135 FWL	Footage Y: 1525 FNL	Elevation: 7134 (FT)		Township: 027N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Measured:							
Latitude: 36.579047	Longitude: -107.217635	X:	Y:	Section: 14		Range: 004W	
Footage X: 1890 FEL	Footage Y: 485 FNL	Elevation: (FT)		Township: 027N			
Tolerance: 710							
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	200	6948	☐			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	3471	3677	☐				
KIRTLAND	3619	3529	☐				
FRUITLAND	3747	3401	☐			Possible Gas	
PICTURED CLIFFS	4047	3101	☐				
LEWIS	4162	2986	☐				
Intermediate Casing	4500	2648	☐			8-3/4" hole. 7", 23 ppf, L-80, LTC Casing. Cement with 1078 cubic ft. Circulate cement to surface.	
HUERFANITO BENTONITE	4574	2574	☐				
CHACRA	4994	2154	☐				
UPPER CLIFF HOUSE	5559	1589	☐			Gas	
MASSIVE CLIFF HOUSE	5739	1409	☐	810		Gas	
MENEFE	5870	1278	☐				
POINT LOOKOUT	6161	987	☐				
MANCOS	6481	667	☐				
GALLUP	7202	-54	☐				
GREENHORN	8142	-994	☐				
GRANEROS	8211	-1063	☐				
TWO WELLS	8265	-1117	☐	1250		Gas	
CUBERO	8353	-1205	☐				
PAGUATE	8353	-1205	☐				
LOWER CUBERO	8397	-1249	☐				
OAK CANYON	8444	-1296	☐				

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 154N

DEVELOPMENT

ENCINAL	8465	-1317	☐	
Total Depth	8465	-1317	☐	6-1/4" hole. 4-1/2", 11.6 ppf, L-80, LTC casing. Cement with 541 cubic 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
	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 #154N
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 7149.0ft (Generic Rig RKB)
Project:	San Juan Basin	MD Reference:	WELL @ 7149.0ft (Generic Rig RKB)
Site:	Russell's Site for Directional MV/DK wells	North Reference:	True
Well:	SJ 27-4 #154N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal		
Design:	Planned		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,705.3	3,471.0	Ojo Alamo		0.00		
3,868.5	3,619.0	Kirtland		0.00		
4,009.2	3,747.0	Fruitland		0.00		
4,325.8	4,047.0	Pictured Cliffs		0.00		
4,443.4	4,162.0	Lewis		0.00		
4,857.2	4,574.0	Huerfano Bentonite		0.00		
5,277.2	4,994.0	Chacra		0.00		
5,842.2	5,559.0	Upper Cliffhouse		0.00		
6,022.2	5,739.0	Mass Cliffhouse		0.00		
6,153.2	5,870.0	Menefee		0.00		
6,444.2	6,161.0	Pt Lookout		0.00		
6,764.2	6,481.0	Mancos Shale		0.00		
7,485.2	7,202.0	Gallup		0.00		
8,425.2	8,142.0	Greenhorn		0.00		
8,494.2	8,211.0	Graneros		0.00		
8,548.2	8,265.0	Two Wells		0.00		
8,636.2	8,353.0	Cubero		0.00		
8,636.2	8,353.0	Paguate		0.00		
8,727.2	8,444.0	Oak Canyon		0.00		
8,748.2	8,465.0	Encinal		0.00		

