

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RCVD SEP 3 '08
OIL CONS. DIV.
DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	RECEIVED FEB 12 2008 Bureau of Land Management Farmington Field Office	5. Lease Number USA SF - 080672 Unit Reporting Number NMNM-78408A-MV
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 #22A
4. Location of Well Unit F (SENW), 1490' FNL & 2035' FWL Unit D (NWNW), 745' FNL & 825' FWL Latitude 36.576297 N. Longitude 107.222585 W. Latitude 36.578352 N. Longitude 107.226734 W.		10. Field, Pool, Wildcat Blanco Mesaverde/Basin Dakota 11. Sec., Twn, Rge, Mer. (NMPM) F Sec. 14, T27N, R4W O Sec. 14, T27N, R4W API # 30-039- 30480
14. Distance in Miles from Nearest Town 54.6 Miles/Blanco	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1490'		
16. Acres in Lease 2560.00	17. Acres Assigned to Well MV/DK 320.0 (W/2)	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 2302' from San Juan 27-4 Unit 22		
19. Proposed Depth 8456	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 7128' 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	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Jamie Goodwin</u> Jamie Goodwin (Regulatory Technician)		<u>2/11/08</u> Date

PERMIT NO.

APPROVAL DATE

APPROVED BY D. Mankie

TITLE AFM

DATE 9/3/08

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 dep. 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

NOTIFY AZTEC OGD 24 HRS.

This action is subject to technical and

PRIOR TO CASING & CEMENT NMOC

SEP 09 2008

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

Hold C104

for Directional Survey and "As Drilled" plat

SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

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

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005

RECEIVED

FEB 12 2008

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

Bureau of Land Management
Farmington Field Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039- 30480	² Pool Code 72319/71599	³ Pool Name MESAVERDE/DAKOTA
⁴ Property Code 7452	⁵ Property Name SAN JUAN 27-4 UNIT	⁶ Well Number 22A
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP	⁹ Elevation 7128'

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		1490'	NORTH	2035'	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	14	27-N	4-W		745'	NORTH	825'	WEST	RIO ARRIBA

¹² Dedicated Acres 320.00 W/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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

¹⁶ 		17 OPERATOR CERTIFICATION <i>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.</i> Signature: <u>Jamie Goodwin</u> Printed Name: <u>Jamie Goodwin</u> 02/11/2008
18 SURVEYOR CERTIFICATION <i>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.</i> Date of Survey: <u>11-8-07</u> Signature and Seal of Registered Surveyor: <u>Galen W. Russell</u> Certificate Number: <u>15703</u>		

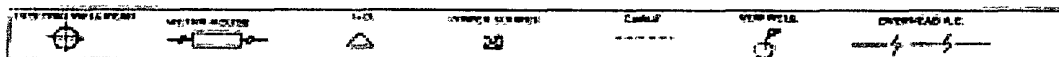
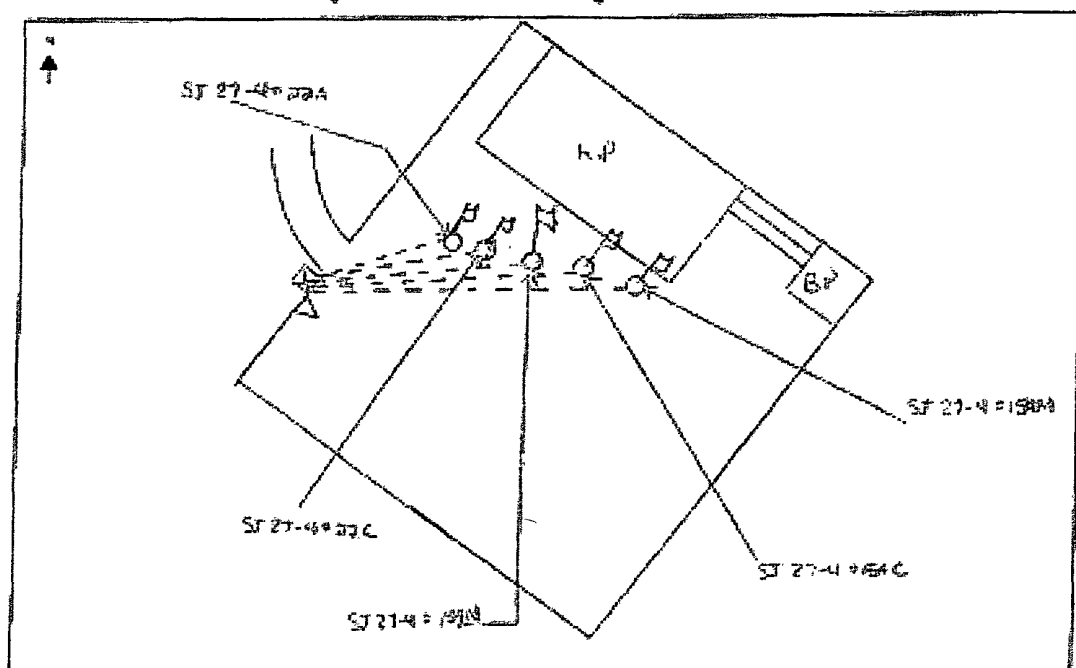


TECHNICAL SERVICES
A CORROSION COMPANY

CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME ST 27-4 #22A LEGALS E-14-27-9 COUNTY San Arriba

PURPOSED C.P. SYSTEM: Drill GS and set solon line enough to contain
5000 lbs. Solon edge of trench. Trenching and pipe line from #22A to
old trench and edge of well is not existing



COMMENTS:

NEAREST POWER SOURCE N/A DISTANCE: _____

PIPELINES IN AREA: _____

TECHNICIAN: Michael H. H. H. DATE: 12/13/2007

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 22A

DEVELOPMENT

Lease:		AFE #: WAN.ZA0.6695				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						
R20076	DAKOTA(R20076)						
R20002	MESAVERDE(R20002)						
Location: Surface Datum Code: NAD 27 Deviated							
Latitude: 36.576240	Longitude: -107.221821	X:	Y:	Section: 14		Range: 004W	
Footage X: 2085 FWL	Footage Y: 1510 FNL	Elevation: 7131 (FT)		Township: 027N			
Tolerance: 2035'		1490'					
Location: Bottom Hole Datum Code: NAD 27 Deviated							
Latitude: 36.578342	Longitude: -107.226136	X:	Y:	Section: 14		Range: 004W	
Footage X: 825 FWL	Footage Y: 745 FNL	Elevation:		(FT) Township: 027N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2020		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 7145		Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	6945	☐			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	3468	3677	☐				
KIRTLAND	3616	3529	☐				
FRUITLAND	3744	3401	☐			Possible Gas	
PICTURED CLIFFS	4044	3101	☐				
LEWIS	4159	2986	☐				
Intermediate Casing	4400	2745	☐			8-3/4" hole. 7", 23 ppf, L-80, LTC casing. Cement with 1057 cubic ft. Circulate cement to surface.	
HUERFANITO BENTONITE	4590	2555	☐				
CHACRA	5009	2136	☐				
UPPER CLIFF HOUSE	5559	1586	☐			Gas	
MASSIVE CLIFF HOUSE	5739	1406	☐	810		Gas	
MENEFEE	5885	1260	☐				
POINT LOOKOUT	6190	955	☐				
MANCOS	6510	635	☐				
GALLUP	7196	-51	☐				
GREENHORN	8136	-991	☐				
GRANEROS	8196	-1051	☐				
TWO WELLS	8243	-1098	☐	1250		Gas	
PAGUATE	8316	-1171	☐				
CUBERO	8344	-1199	☐				
LOWER CUBERO	8389	-1244	☐				
OAK CANYON	8434	-1289	☐				

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 22A

DEVELOPMENT

ENCINAL	8456	-1311	☐	
Total Depth	8456	-1311	☐	6-1/4" hole, 4-1/2", 11.6 ppf, L-80, LTC casing. Cement with 553 cubic ft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:		
Reference Type	Well Name	Comments
Production	27-4 #28	SW 11-27N-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 #22A
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 7146.0ft (Generic Rig RKB)
Project:	San Juan Basin	MD Reference:	WELL @ 7146.0ft (Generic Rig RKB)
Site:	Russell's Site for Directional MV/DK wells	North Reference:	True
Well:	SJ 27-4 #22A	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal		
Design:	Planned		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)		Name	Casing Diameter (in)	Hole Diameter (in)
200.0	200.0	9 5/8"		9.625	12.250
4,690.6	4,400.0	7"		7.000	8.750
8,746.6	8,456.0	4 1/2"		4.500	6.250

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,718.6	3,468.0	Ojo Alamo		0.00		
3,882.7	3,616.0	Kirtland		0.00		
4,020.9	3,744.0	Fruitland		0.00		
4,332.5	4,044.0	Pictured Cliffs		0.00		
4,448.9	4,159.0	Lewis		0.00		
4,880.6	4,590.0	Huerfano Bentonite		0.00		
5,299.6	5,009.0	Chacra		0.00		
5,849.6	5,559.0	Upper Cliffhouse		0.00		
6,029.6	5,739.0	Mass Cliffhouse		0.00		
6,175.6	5,885.0	Menefee		0.00		
6,480.6	6,190.0	Pt. Lookout		0.00		
6,800.6	6,510.0	Mancos Shale		0.00		
7,459.6	7,169.0	Gallup		0.00		
8,426.6	8,136.0	Greenhorn		0.00		
8,486.6	8,196.0	Graneros		0.00		
8,533.6	8,243.0	Two Wells		0.00		
8,606.6	8,316.0	Paguate		0.00		
8,634.6	8,344.0	Cubero		0.00		
8,679.6	8,389.0	Lower Cubero		0.00		
8,724.6	8,434.0	Oak Canyon		0.00		
8,746.6	8,456.0	Encinal		0.00		

