

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RCVD JAN 14 '09
OIL CONS. DIV.
DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	RECEIVED NOV 21 2008 Bureau of Land Management Farmington Field Office	5. Lease Number SF - 080673 Unit Reporting Number NMNM-78408B-DIC 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	
4. Location of Well Unit J (NWSE), 2075' FSL & 2515' FEL Unit G (SWNE), 1735' FNL & 2375' FEL Latitude 36.585914 N. Longitude 107.291311 W. Latitude 36.590090 N. Longitude 107.290919 W.	9. Well Number #123P	
	10. Field, Pool, Wildcat Blanco Mesaverde/Basin Dakota 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 7, T27N, R4W Sec. 7, T27N, R4W API # 30-039-30591	
14. Distance in Miles from Nearest Town 44.5 Miles/Blanco	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 2375'		
16. Acres in Lease 1753.380	17. Acres Assigned to Well MV/DK 320.0 (E/2)	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 54' from San Juan 27-4 Unit 5N		
19. Proposed Depth 8181 Tvd 8503' TMD	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6908' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached	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	
24. Authorized by: <u>Jamie Goodwin</u> Jamie Goodwin (Regulatory Technician)	<u>1/13/09</u> Date	

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE AFM DATE 1/13/09

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

JAN 14 2009

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

Hold C104
for Directional Survey
and "As Drilled" plat

NMOCD

This action is subject to technical and
procedural review pursuant to 43 CFR 3165.3
and appeal pursuant to 43 CFR 3165.4

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised October 12, 2005

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

OIL CONSERVATION DIVISION

Submit to Appropriate District Office

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

1220 South St. Francis Dr.
Santa Fe, NM 87505

State Lease - 4 Copies
Fee Lease - 3 Copies

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30591	² Pool Code 71599 / 72319	³ Pool Name BASIN DAKOTA/BLANCO MESAVERDE
⁴ Property Code 7452	⁵ Property Name SAN JUAN 27-4 UNIT	⁶ Well Number 123P
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP	⁹ Elevation 6908'

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	7	27-N	4-W		2075'	SOUTH	2515'	EAST	RIO ARriba

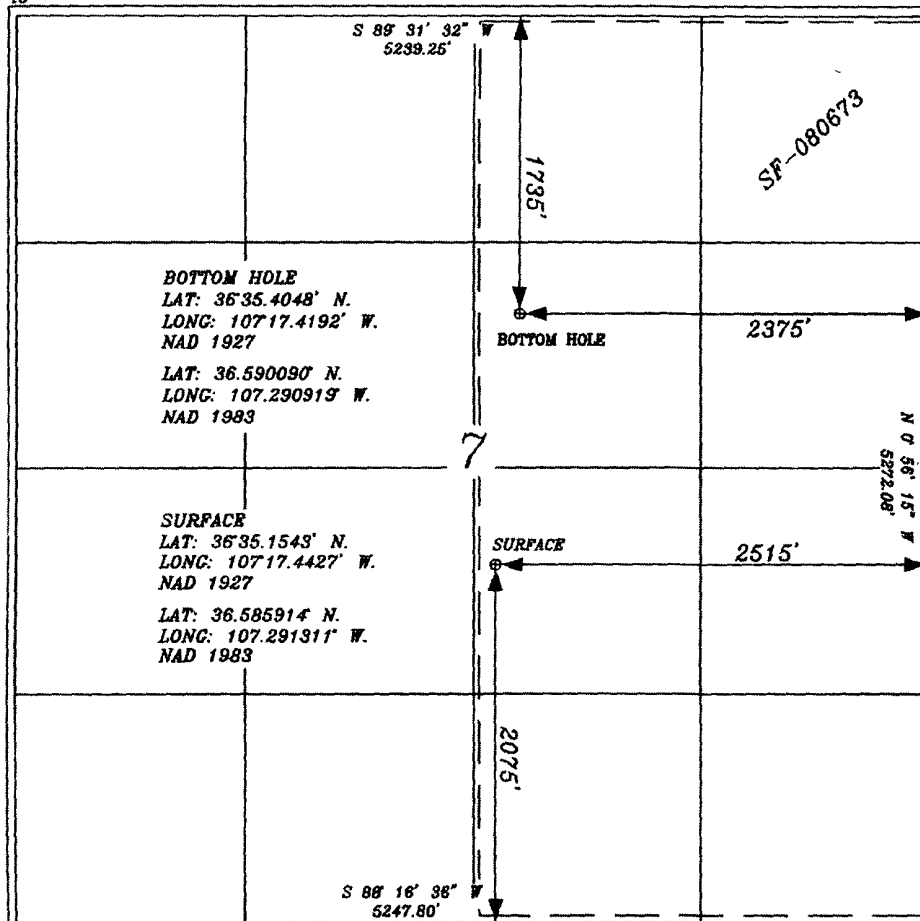
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	7	27-N	4-W		1735'	NORTH	2375'	EAST	RIO ARriba

¹² Dedicated Acres 320.00 E12	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

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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.

James Gardenhire 11/11/08
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.

10-18-08
Date of Survey
Signature *James V. Russell*
NEW MEXICO
15703
LICENSED PROFESSIONAL SURVEYOR
Certificate Number 15703

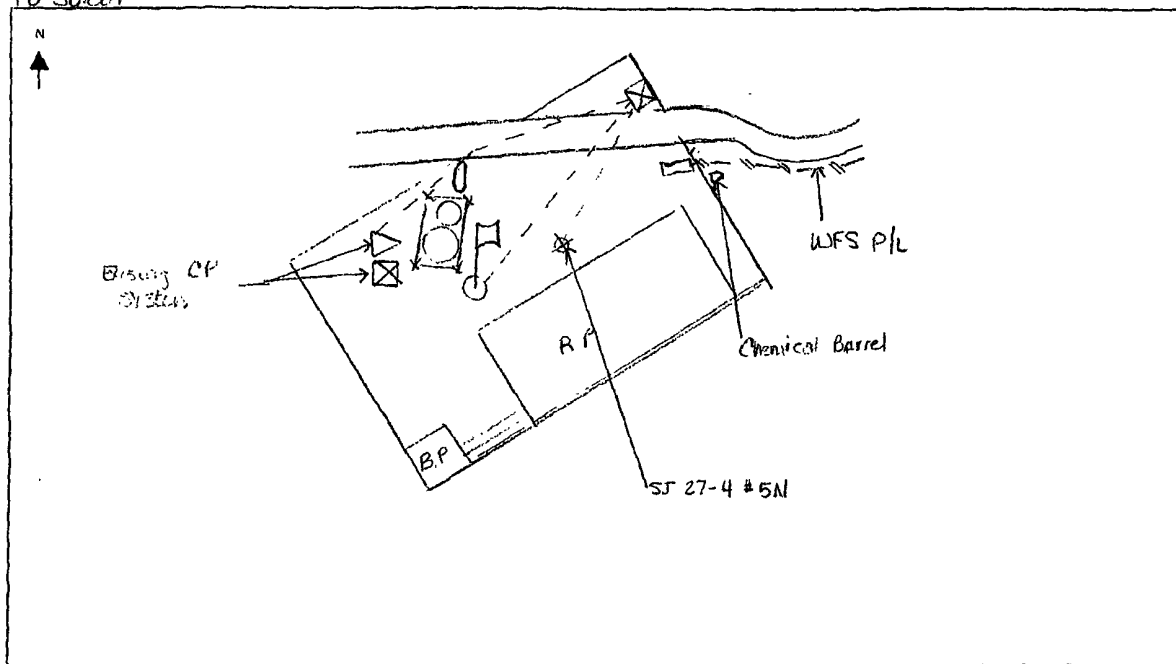


12/27/07 10:00 AM
12/27/07 10:00 AM

CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME SJ 27-4 # 123P LEGALS J-7-27-4 COUNTY Rio Arriba

PURPOSED C.P. SYSTEM: Relocate and upgrade existing solar to NW corner of location. Trench approx 850' of positive from existing GB to solar. Trench approx 160' of #8 neg from existing SJ 27-4 #5N to solar. Trench approx 200' of #2 neg from pump-out well to solar.



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

COMMENTS: 3.139v / 3.80-82 vdc / Solar units of new arrival turned on to get GB resistance for possible launch of #123P CP system review. Notified Randy Smith unit was off, he said turn it back off once GB resistance was taken. Technical unit off.

NEAREST POWER SOURCE N/A DISTANCE: _____

PIPELINES IN AREA: WFS P/L

TECHNICIAN: Mike McPherson DATE: 12/24/07

JP

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 123P

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8337				AFE \$:	
Field Name: hBR_SAN JUAN 27-4 UNIT		Rig: H&P Rig 283		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)						
R20076	DAKOTA(R20076)						
Location: Surface		Datum Code: NAD 27				Deviated	
Latitude: 36.585905	Longitude: -107.290711	X:	Y:	Section: 07	Range: 004W		
Footage X: 2515 FEL	Footage Y: 2075 FSL	Elevation: 6908	(FT)	Township: 027N			
Tolerance:							
Location: Bottom Hole		Datum Code: NAD 27				Deviated	
Latitude: 36.590081	Longitude: -107.290319	X:	Y:	Section: 07	Range: 004W		
Footage X: 2375 FEL	Footage Y: 1735 FNL	Elevation:	(FT)	Township: 027N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2009		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6920 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	6720	☐			12-1/4" hole. 9-5/8", 32.3 ppf, H-40, STC casing. Cement with 159 cubic ft. Circulate cement to surface.	
OJAM	3141	3779	☐				
KRLD	3312	3608	☐				
FRLD	3579	3341	☐			Possible Gas	
PCCF	3760	3160	☐				
LEWS	3909	3011	☐				
Intermediate Casing	4500	2420	☐			8-3/4" hole. 7", 23 ppf, L-80, LTC Casing. Cement with 1086 cubic ft. Circulate cement to surface.	
CHRA	4710	2210	☐				
UCLFH	5323	1597	☐			Gas	
MASSIVE CLIFF HOUSE	5509	1411	☐	801		Gas	
MENF	5576	1344	☐				
PTLK	5929	991	☐				
MNCS	6203	717	☐				
GLLP	7085	-165	☐				
GRHN	7854	-934	☐			Softrock 100' above GRHN to TD	
GRRS	7917	-997	☐				
TWLS	7953	-1033	☐	1650		Gas	
CBRO	8071	-1151	☐				
CBRL	8116	-1196	☐				
OAK CANYON	8172	-1252	☐				
Total Depth	8181	-1261	☐			6-1/4" hole. 4-1/2", 11.6 ppf, L-80, LTC casing. Cement with 503 cubic ft. Circulate cement a minimum of 100' inside the previous casing string.	

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 27-4 UNIT 123P

DEVELOPMENT

ENCINAL 8192 -1272 ☐

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

GR/CBL

Mudlog from 100' T/Greenhorn to TD

Final TD should be ~110' below T/Cubero

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 27-4 #123P
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6923.0ft (Generic Rig RKB)
Project:	San Juan Basin	MD Reference:	WELL @ 6923.0ft (Generic Rig RKB)
Site:	Russell's Site for Directional MV/DK wells	North Reference:	True
Well:	SJ 27-4 #123P	Survey Calculation Method:	Minimum Curvature
Wellbore:	principal		
Design:	planned		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction	
3,370.6	3,141.0	Ojo Alamo		0.00		
3,562.3	3,312.0	Kirtland		0.00		
3,861.6	3,579.0	Fruitland		0.00		
4,062.2	3,760.0	Pictured Cliffs		0.00		
4,221.2	3,909.0	Lewis		0.00		
5,032.1	4,710.0	Huerfano Bentonite		0.00		
5,032.1	4,710.0	Chacra		0.00		
5,645.1	5,323.0	Upper Cliffhouse		0.00		
5,831.1	5,509.0	Mass. Cliffhouse		0.00		
5,898.1	5,576.0	Menefee		0.00		
6,251.1	5,929.0	Pt. Lookout		0.00		
6,525.1	6,203.0	Mancos Shale		0.00		
7,407.1	7,085.0	Gallup		0.00		
8,176.1	7,854.0	Greenhorn		0.00		
8,239.1	7,917.0	Graneros		0.00		
8,275.1	7,953.0	Two Wells		0.00		
8,393.1	8,071.0	Upper Cubero		0.00		
8,438.1	8,116.0	Lower Cubero		0.00		
8,494.1	8,172.0	Oak Canyon		0.00		
	8,192.0	Encinal		0.00		

Directions from the Post Office
In Blanco, NM
to
Burlington Resources Oil & Gas Company LP
SAN JUAN 27-4 UNIT 123P
2075' FSL & 2515' FEL,
Section 7, T27N, R4W, N.M.P.M., Rio Arriba County,
New Mexico
Latitude: 36.585914° N
Longitude: 107.291311° W
Nad 83

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,
Continue (easterly) on General American 3.5 miles,
Turn left (northerly) on FR 357 0.6 miles,
Turn left (westerly) 0.2 miles,
Turn left (southwesterly) 0.6 miles,
To newly staked location twinned on existing well pad
SAN JUAN 27-4 UNIT 5N.