

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

DEC 16 2008

Bureau of Land Management
Farmington Field Office

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

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 FEB 2 '09 OIL CONS. DIV.	
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name San Juan 27-4 Unit DIST. 3	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name 9. Well Number #109A	
4. Location of Well Unit B (NWNE), 1160' FNL & 2485' FEL Unit B (SWSE), 1000' FNL & 1400' FEL Surf :Latitude 36.562742 N. Longitude 107.220210 W. Bottom: Latitude 36.563176 N. Longitude 107.216523 W.	10. Field, Pool, Wildcat Blanco Mesaverde/Basin Dakota 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 23, T27N, R4W Sec. 23, T27N, R4W API # 30-039-30618	
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 2485'	17. Acres Assigned to Well MV/DK 320.00 E/2	
16. Acres in Lease 2560.000		
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 1467' from San Juan 27-4 Unit 109B		
19. Proposed Depth 8226'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6948' 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)	12/10/08 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

NMOCD

FEB 05 2009

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

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

RECEIVED

REC 16 2008

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

Form C-102
Revised October 12, 2005

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30018	² Pool Code 71599 / 72319	³ Pool Name BLANCO MESAVERDE/BASIN DAKOTA
⁴ Property Code 7452	⁵ Property Name SAN JUAN 27-4 UNIT	⁶ Well Number 109A
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP	⁹ Elevation 6948'

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		1160'	NORTH	2485'	EAST	RIO ARRIBA

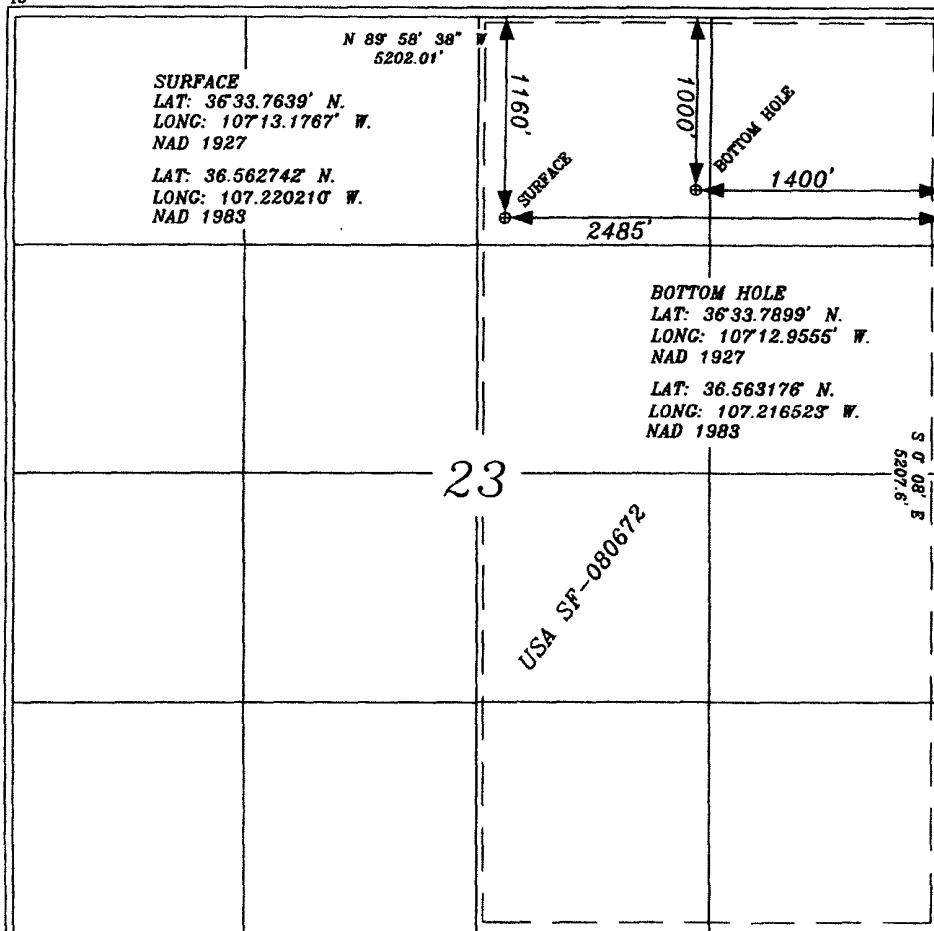
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	23	27-N	4-W		1000'	NORTH	1400'	EAST	RIO ARRIBA

¹² Dedicated Acres 320.00	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



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 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.

11-8-08
Date of Survey
Signature and Seal of Professional Surveyor
GLEN W. FOSSELL
NEW MEXICO
15703
LICENSED PROFESSIONAL SURVEYOR
Certificate Number 15703

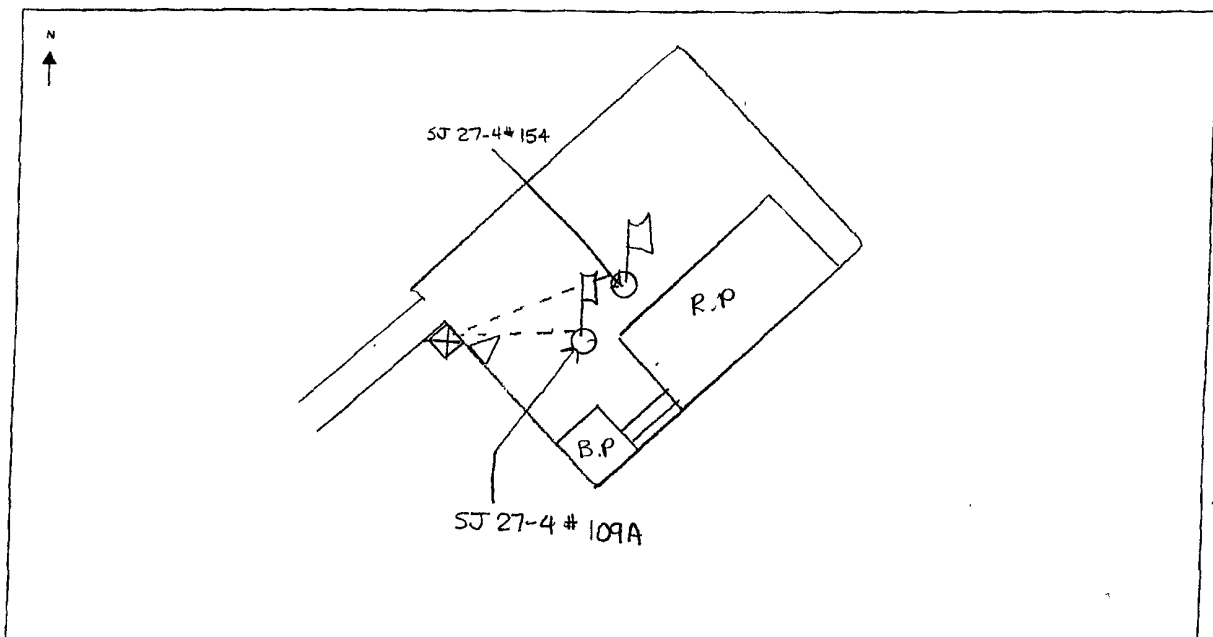


TECHNICAL SERVICES
A CORROSION COMPANY

CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME SJ 27-4 #109A 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 WELLHEAD	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 Hargrave DATE: 9/25/2007

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

R.L.

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 109A

DEVELOPMENT

Lease:		AFE #: WAN.ZA2.7656				AFE \$:	
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)						
R20076	DAKOTA(R20076)						
Location: Surface Datum Code: NAD 27							
Latitude: 36.562732		Longitude: -107.219612		X:	Y:	Section: 23	Range: 004W
Footage X: 2485 FEL		Footage Y: 1160 FNL		Elevation: 6948 (FT)	Township: 027N		
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27							
Latitude: 36.563166		Longitude: -107.215925		X:	Y:	Section: 23	Range: 004W
Footage X: 1400 FEL		Footage Y: 1000 FNL		Elevation: (FT)	Township: 027N		
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2020		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6962 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	6762	☐			12-1/4" hole. 9-5/8", 32.3 ppf, H-40, STC casing. Cement with 159 cubic ft. Circulate cement to surface.	
OJAM	3247	3715	☐				
KRLD	3437	3525	☐				
FRLD	3532	3430	☐			Possible Gas	
PCCF	3822	3140	☐				
LEWS	3947	3015	☐				
Intermediate Casing	4047	2915	☐			8-3/4" hole. 7", 23 ppf, L-80, LTC casing. Cement with 952 cubic ft. Circulate cement to surface.	
HUERFANITO BENTONITE	4318	2644	☐				
CHRA	4770	2192	☐				
UCLFH	5348	1614	☐			Gas	
MASSIVE CLIFF HOUSE	5514	1448	☐	861		Gas	
MENF	5642	1320	☐				
PTLK	5931	1031	☐				
MNCS	6251	711	☐				
GLLP	6993	-31	☐				
GRHN	7933	-971	☐			Mudlog from T/GRHN to TD	
GRRS	7993	-1031	☐				
TWLS	8040	-1078	☐	1250		Gas	
CBRO	8141	-1179	☐				
CBRL	8186	-1224	☐				
OAK CANYON	8206	-1244	☐				
ENCINAL	8226	-1264	☐				

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 109A

DEVELOPMENT

Total Depth 8226 -1264 ☐

6-1/4" hole. 4-1/2", 11.6 ppf, L-80, LTC casing. Cement with 569 cubic ft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:		
Reference Type	Well Name	Comments
Production	27-4 #109B	SE 23-27N-4W
Production	SJ 27-4 #139M	
Production	SL 27-4 #143A	
Production	SJ 27-4 #3A	
Production	SJ 27-4 #98	
Production	SJ 27-4 #22	

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

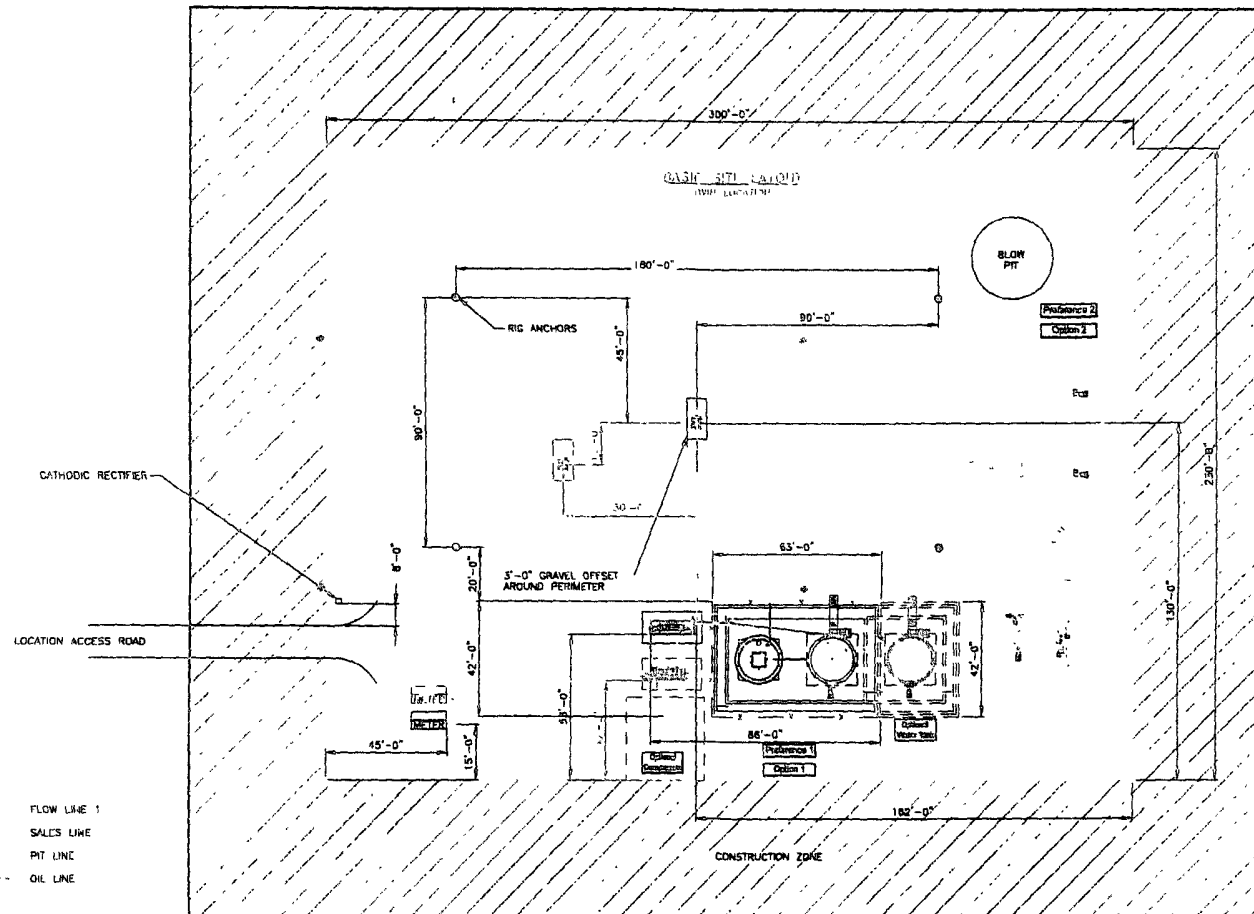
Planning Report

Database: EDM Central Planning
Company: ConocoPhillips SJBU
Project: San Juan Basin
Site: Russell's Site for Directional MV/DK wells
Well: SJ 27-4 #109A
Wellbore: SJ 27-4 #109A
Design: Plan #1

Local Co-ordinate Reference: Well SJ 27-4 #109A
TVD Reference: WELL @ 6963 0ft (Original Well Elev)
MD Reference: WELL @ 6963 0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,402 5	3,247 0	Ojo		0 00	
3,604 3	3,437 0	Kirtland		0 00	
3,703 8	3,532 0	Fruitland		0 00	
3,999 7	3,822 0	Pictured Cliffs		0 00	
4,125 2	3,947 0	Lewis		0 00	
4,496 2	4,318 0	Huerfano Bantonite		0 00	
4,948 2	4,770 0	Chacra		0 00	
5,526 2	5,348 0	Upper Cliffhouse		0 00	
5,692 2	5,514 0	Mass Cliffhouse		0 00	
5,820 2	5,642 0	Menefee		0 00	
6,109 2	5,931 0	Point Lookout		0 00	
6,429 2	6,251 0	Mancos		0 00	
7,171 2	6,993 0	Upper Gallup		0 00	
8,111 2	7,933 0	Greenhorn		0 00	
8,171 2	7,993 0	Graneros Two Wells Paguete Graneros		0 00	
8,218 2	8,040 0	Two Wells		0 00	
8,319 2	8,141 0	Cubero		0 00	
8,364 2	8,186 0	Lower Cubero		0 00	
8,384 2	8,206 0	Oak Canyon		0 00	
8,404 2	8,226 0	Encinal		0 00	



SEE SHEET 2, 3, 4 FOR PIPING DETAILS
ALL UNDERGROUND PIPING IS TO BE BURIED A MIN. OF 3'-0" TOP

SHEET 1 OF 5

ENGINEERING REVIEW										REFERENCE DRAWINGS		ConocoPhillips	CONOCOPHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT		
DATE	BY	CHKD	APP'D	REV	REL	DESCRIPTION	DATE	BY	CHKD	APP'D	REL		CLIENT NO.	CLIENT APPR.	APPR. DATE
						PROCESS						SAN JUAN BUSINESS UNIT	PROCESS NO.	SCALE NAME	CHECKED DATE: 06/20/97
						MECHANICAL							PROCESS BY		
						PIPING							TRAC NO.		
						ELECTRICAL							HP3PHASE-REV1		
						I & C									
						PIPE/STRUCTURES									
						PROJECT									

San Juan Business Unit Facility Diagram- Site Layout

Directions from the Post Office
In Blanco, NM
to
Burlington Resources Oil & Gas Company LP
SAN JUAN 27-4 UNIT 109A
1160' FNL & 2485' 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.