

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number USA SF-079527 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 OIL CONS. DIV. DIST. 3
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name
4. Location of Well Surf:Unit D (NWNW), 1080' FNL & 1025' FWL, BH:Unit C (NENW), 770' FNL & 1980' FWL Surf:Latitude 36.548581 N Longitude 107.226170 W BH:Latitude 36.549490 N Longitude 107.222864 W	9. Well Number #35C
10. Field, Pool, Wildcat Blanco MV/Basin DK	11. Sec., Twn, Rge, Mer. (NMPM) Sec. 26, T27N, R4W API # 30-039-30413
14. Distance in Miles from Nearest Town 57.2 miles/Bloomfield	12. County Rio Arriba
15. Distance from Proposed Location to Nearest Property or Lease Line 770'	13. State NM
16. Acres in Lease 1280.000	17. Acres Assigned to Well MV/DK 320 - (W/2)
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 370' from San Juan 27-4 62	20. Rotary or Cable Tools Rotary
19. Proposed Depth 8541 TWD 8721' TMD	22. Approx. Date Work will Start
21. Elevations (DF, FT, GR, Etc.) 6712 GL 7254	
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>Sasha Spangler</u> Sasha Spangler (Regulatory Technician)	Date <u>10-26-07</u>

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.

PERMIT NO. APPROVAL DATE
APPROVED BY [Signature] TITLE AFM DATE 9/18/08

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 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

SEP 19 2008
This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

NMOC

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

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

Hold C104
for Directional Survey
and "As Drilled" plat

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Azusa, NM 88210

District III

1000 Rio Grande Rd., Azusa, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87503

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

Submitted to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

OCT 26 2007

Bureau of Land Management ☐ AMENDED REPORT
Field Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30413	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 35C
⁷ OGRD No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY	⁹ Elevation 7254

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
D	28	27N	04W		1080	NORTH	1025	WEST	RIO ARriba

¹¹ Bottom Hole Location If Different From Surface

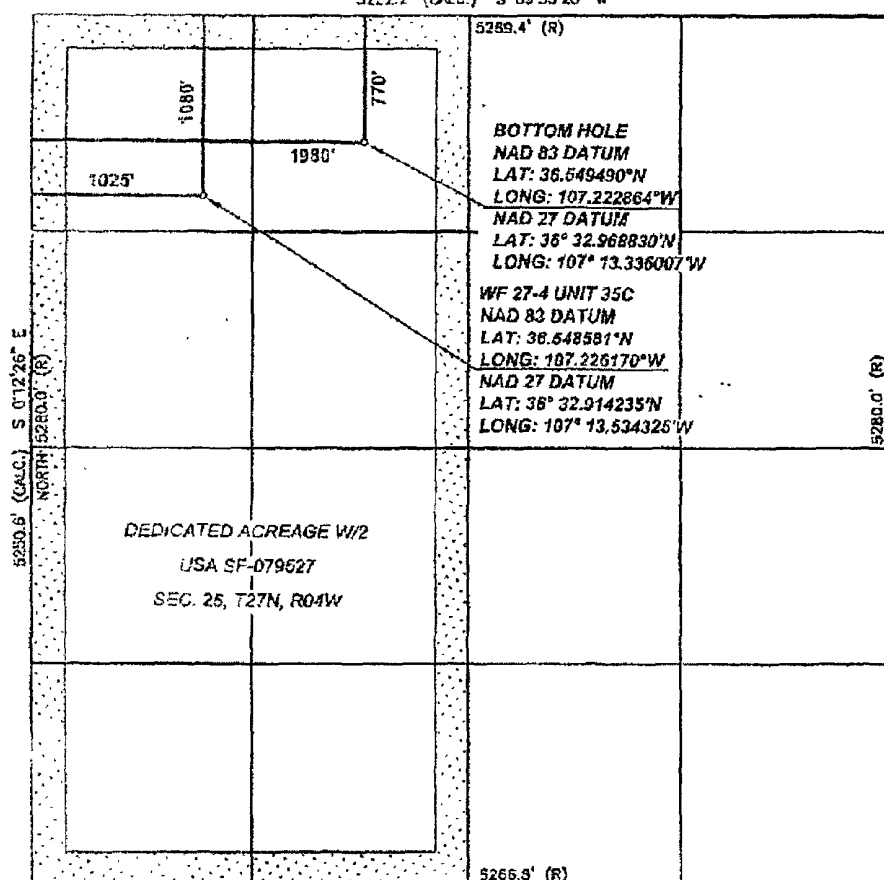
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	28	27N	04W		770	NORTH	1980	WEST	RIO ARriba

¹² Dedicated Acres 320 W/2	¹³ Joint or Infill	¹⁴ Consideration 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

5272.2' (CALC.) S 89°30'23" W



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 tract 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 mineral or working interest, or is a voluntary pooling agreement or a compulsory pooling order heretofore entered up the division.
<i>Kandis Roland</i>
Signature
Kandis Roland
Printed Name
Regulatory Technician
Title and E-mail Address
6/21/07
Date
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.
Date of Survey: 4/2/07
Signature and Seal of Professional Surveyor
Certificate Number: NM 11393

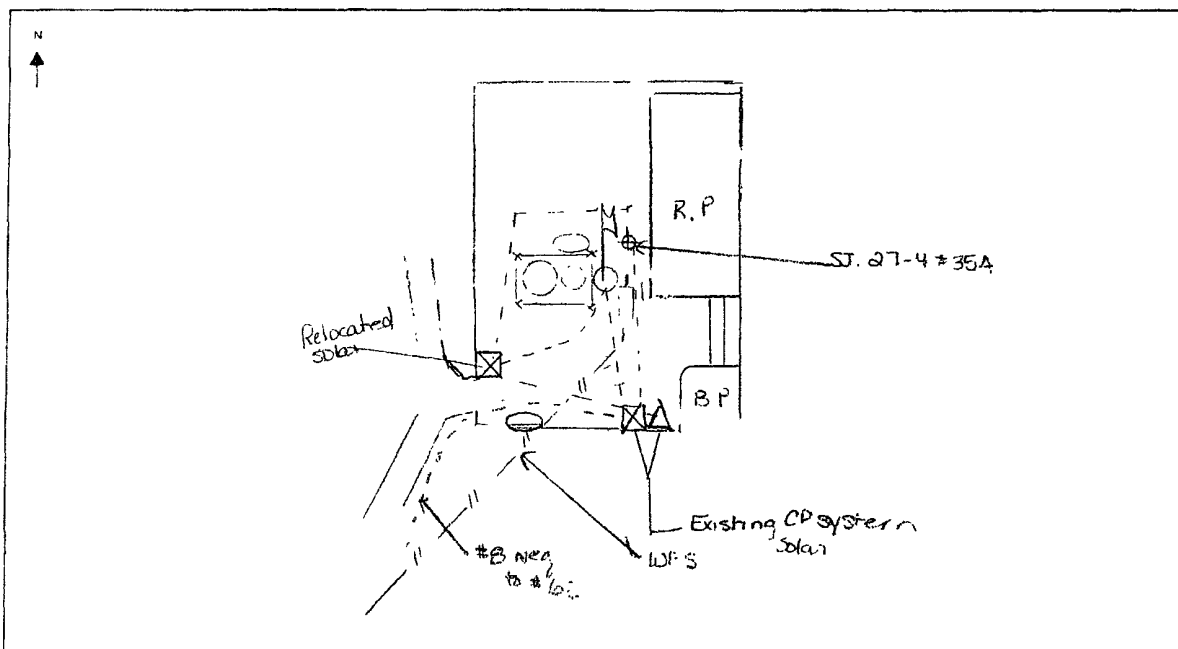


TECHNICAL SERVICES A CORROSION COMPANY

CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME ST 27-4 #35C LEGALS D-26-27-4 COUNTY Rio Arriba

PURPOSED C.P. SYSTEM: Relocate existing solar to SW corner of location. Trench approx 150' of positive from photo solar. Trench approx 200' of #8 neg from proposed well to solar. Trench approx 250' of #8 neg from existing well #35A to solar.



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

COMMENTS: Actual stationing and drawing done / drawn according to actual on location
3.4 v / 5.3 a = .6 ohm GB 2 wells attached with neg

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

TECHNICIAN: H. J. Hargrave DATE: 8/16/2007

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

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 35C

DEVELOPMENT

Lease:		AFE #: WAN.ZA2.7827				AFE \$:	
Field Name: hBR SAN JUAN 27-4 UNIT		Rig: Aztec Rig 711		State: NM	County: RIO ARRIBA	API #:	
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist: Riley, Brook		Phone: +1 505-324-6108		Prod. Engineer:		Phone:	
Res. Engineer: McKee, Cory J		Phone: 505-326-9826		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
R20002	MESAVERDE(R20002)						
R20076	DAKOTA(R20076)						
Location: Surface Datum Code: NAD 27 Deviated							
Latitude: 36.548543	Longitude: -107.225632	X:	Y:	Section: 26	Range: 004W		
Footage X: 1010 FWL	Footage Y: 1095 FNL	Elevation: 7254	(FT)	Township: 027N			
Tolerance: 1025 1080							
Location: Bottom Hole Datum Code: NAD 27 Deviated							
Latitude: 36.549277	Longitude: -107.220639	X:	Y:	Section: 26	Range: 004W		
Footage X: 2260 FWL	Footage Y: 770 FNL	Elevation:	(FT)	Township: 027N			
Tolerance: 980							
Location Type: Restricted		Start Date (Est.): 1/1/2009		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 7268		Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	215	7053	☐			12-1/4" hole. 9-5/8", 32.3 ppf, H-40, ST&C casing. Cement with 170 cu. ft. Circulate cement to surface.	
OJO ALAMO	3530	3738	☐			Possible water flows.	
KIRTLAND	3724	3544	☐				
FRUITLAND	3936	3332	☐			Possible gas.	
PICTURED CLIFFS	4091	3177	☐				
LEWIS	4250	3018	☐				
Intermediate Casing	4350	2918	☐			8-3/4" hole. 7", 23.0 ppf, L-80, LT&C casing. Cement with 1020 cu. ft. Circulate cement to surface.	
HUERFANITO BENTONITE	4606	2662	☐				
CHACRA	5079	2189	☐				
UPPER CLIFF HOUSE	5706	1562	☐				
MASSIVE CLIFF HOUSE	5826	1442	☐			Gas; possibly wet	
MENELEE	5954	1314	☐			Gas.	
MASSIVE POINT LOOKOUT	6280	988	☐	800		Gas.	
MANCOS	6796	472	☐				
UPPER GALLUP	7413	-145	☐			Gas. Possibly wet.	
GREENHORN	8220	-952	☐	1600		Gas possible, highly fractured	
GRANEROS	8279	-1011	☐				
TWO WELLS	8311	-1043	☐			Gas	
UPPER CUBERO	8434	-1166	☐			Gas	
LOWER CUBERO	8477	-1209	☐				
ENCINAL	8541	-1273	☐				

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 35C

DEVELOPMENT

TD	8541	-1273	☐	TD T/Encinal. 6-1/4" hole. 4-1/2", 11.6 ppf, L-80, LT&C casing. Cement with 571 cu. ft. Circulate cement a minimum of 100 ft. inside the previous casing string. No open hole logs. Cased hole TDT with GR to surface.
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Reference Wells:		
Reference Type	Well Name	Comments
Intermediate	27-4 #35A	NW 26-27N_4W
Intermediate	27-4 #29B	NE 26-27N_4W
Production	SJ 27-4 #132	NE 27-27N-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 100' above GRHN to TD	

Additional Information:					
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks

Comments: Location/Tops/Logging - MVNM027N004W26NW2; MUDLOG 100' above GRHN to TD

Zones - MVNM027N004W26NW2 DKNM027N004W26NW1

General/Work Description - DRILLING: OPEN LOGS and 85Q foam frac. (R Wall/RAM Team)

1/17/07 PAS added the DK formation W. Prabowo This is undeveloped section but it surrounded by developed section in the west, south and east.

Osiris give 0 reserves in this section but I don't think this is the right number so I would suggest we used 350 mmscf (analog to the poorest offset wells in the section 25) to justify the tail.

ConocoPhillips or its affiliates Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 27-4 #35C
Company:	ConocoPhillips Lower 48	TVD Reference:	Generic Rig KB @ 7269.0ft (Generic Rig)
Project:	San Juan Basin	MD Reference:	Generic Rig KB @ 7269.0ft (Generic Rig)
Site:	Russell's Site for Directional MV/DK wells	North Reference:	True
Well:	SJ 27-4 #35C	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 27-4 #35C		
Design:	SJ 27-4 #35C APD Directional Plan		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (d)	Dip Direction (d)	
3,698.4	3,530.0	Ojo Alamo		0.00		
3,898.9	3,724.0	Kirtland		0.00		
4,114.6	3,936.0	Fruitland		0.00		
4,270.7	4,091.0	Pictured Cliffs		0.00		
4,430.0	4,250.0	Lewis		0.00		
4,786.0	4,606.0	Huerfano Bentonite		0.00		
5,259.0	5,079.0	Chacra		0.00		
5,886.0	5,706.0	Upper Cliffhouse		0.00		
6,006.0	5,826.0	Mass Cliffhouse		0.00		
6,134.0	5,954.0	Menefee		0.00		
6,460.0	6,280.0	Pt Lookout		0.00		
6,976.0	6,796.0	Mancos Shale		0.00		
7,593.0	7,413.0	Gallup		0.00		
8,400.0	8,220.0	Greenhorn		0.00		
8,459.0	8,279.0	Graneros		0.00		
8,491.0	8,311.0	Two Wells		0.00		
8,614.0	8,434.0	Upper Cubero		0.00		
8,657.0	8,477.0	Lower Cubero		0.00		
8,721.0	8,541.0	Encinal		0.00		
8,721.0	8,541.0	TD		0.00		

