

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	RECEIVED OCT 30 2007 Bureau of Land Management Farmington Field Office	5. Lease Number USA NM-03862 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 28-4 Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700		8. Farm or Lease Name 9. Well Number #34N
4. Location of Well Surf: Unit M (SWSW), 818' FSL & 859' FWL BH: Unit K (NESW), 4000' FSL & 2245' FWL 1658' 1989' Surf: Latitude 36.625318791 N Longitude 107.207552419 W BH: Latitude 36.628881389 N Longitude 107.292512222 W		10. Field, Pool, Wildcat Blanco MV/Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 30, T28N, R4W Lot 4 M API # 30-039-30414
14. Distance in Miles from Nearest Town 20 mile/Gobernador	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1880'		
16. Acres in Lease 1917.000	17. Acres Assigned to Well 319.630 (S/2)	
18. Distance from Proposed Location to Nearest Well, Drlg. Compl. or Applied for on this Lease 98' SJ 28-4 #34		
19. Proposed Depth 8252' TUD 7810' TMD	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6874' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: Sasha Spangler Sasha Spangler (Regulatory Technician)		10-30-07 Date

PERMIT NO. APPROVAL DATE
APPROVED BY TITLE DATE 9/13/08
NOTIFY AZTEC OCD 24 HRS.

Archaeological Report attached

Threatened and Endangered Species Report attached

NOTE: This format is issued in lieu of U.S. BLM Form 3100-5

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 with

Example Master Plan Type 3

Bond Numbers NMB-000015

NMOCD

This action is subject
procedural review per
and appeal pursuant

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.

SEP 09 2008

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

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 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

Submit to Appropriate District Office

State Lease - 7 Copies

Fee Lease - 3 Copies

NOV 21 2007

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT
Bureau of Land Management
Burlington Field Office

¹ API Number 030-039- 30414	² Pool Code 72319/71599	³ Pool Name MESEVERDE / DAKOTA
⁴ Property Code 7452	⁵ Property Name SAN JUAN 28-4 UNIT	⁶ Well Number 34N
⁷ OGRID No 14538	⁸ Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP	⁹ Elevation 6875

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
M	30	28-N	4-W	(4)	818	SOUTH	859	WEST	RIO ARRIBA

¹¹ Bottom Hole Location If Different From Surface

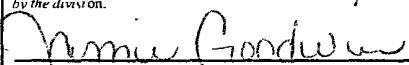
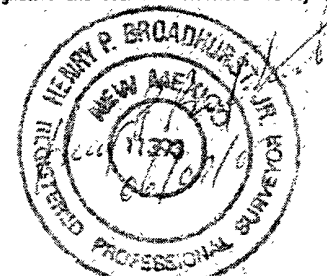
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	30	28-N	4-W		1658	SOUTH	1959	WEST	RIO ARRIBA

¹² Dedicated Acres DK 319.04 W/2 MV 319.63 S/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

WEST

5272.1' (R)

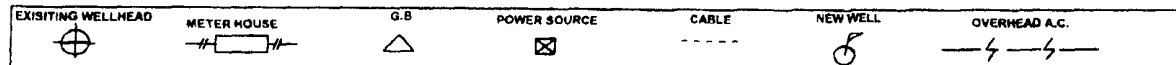
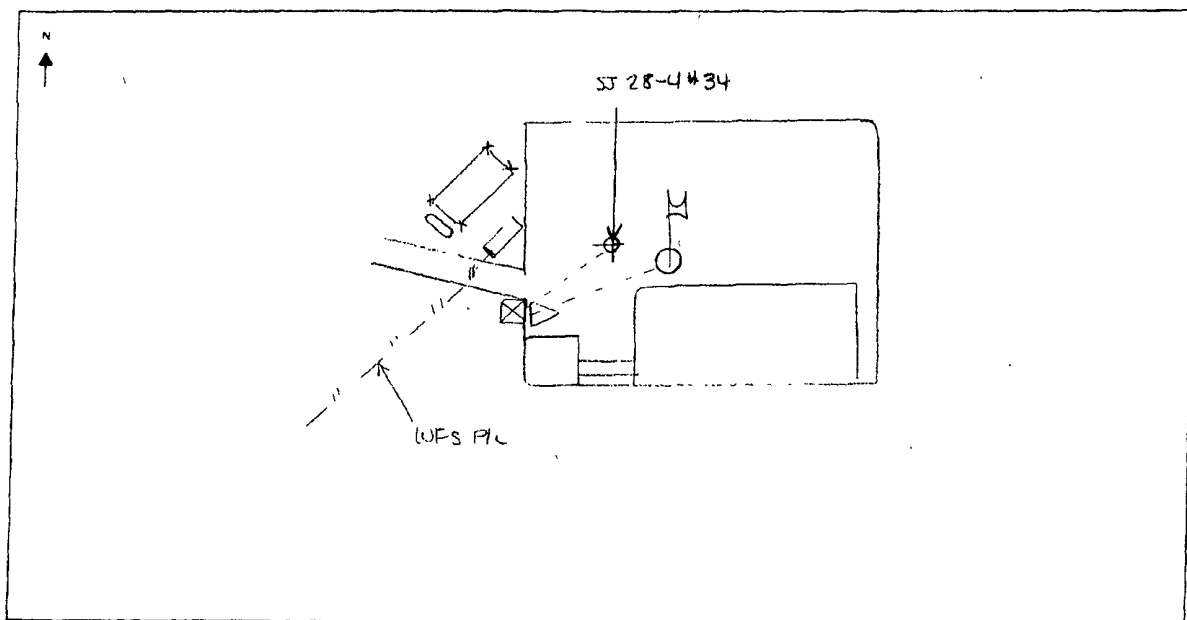
¹⁶ 5280.0' (R) WEST NORTH 859' 818' 1959' 1658' WEST 5272.1' (R)	W/2 DEDICATED ACREAGE USA NM-03862 SECTION 30 T-28-N, R-4-W	BOTTOM HOLE NAD 83 LAT: 36.630117° N LONG: 107.289779° W NAD 27 LAT: 36°37.806511' N LONG: 107°17.350755' W	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained 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 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 working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.  Signature Jamie Goodwin Printed Name Regulatory Tech. Title and E-mail Address 11/21/2007 Date
	S/2 DEDICATED ACREAGE USA NM-03862 SECTION 30 T-28-N, R-4-W	WELL FLAG NAD 83 LAT: 36.627827° N LONG: 107.293544° W NAD 27 LAT: 36°37.669096' N LONG: 107°17.576642' W	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: 5/22/07 Signature and Seal of Professional Surveyor:  Certificate Number: NM 11393



CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME SJ 28-4 #34N LEGALS M-30-28-9 COUNTY Rio Arriba

PURPOSED C.P. SYSYTEM: Drill GB and set two well solar. in SW edge of location. Trench approx 180' of #8 neg from purposed well to solar. Trench approx 80' of #8 neg from existing well to solar



COMMENTS: access to SJ 28-4 #34 unusable drawn based on new access

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

TECHNICIAN: [Signature] DATE: 8/1/2007

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-4 UNIT 34N

DEVELOPMENT

Lease:		AFE #: WAN.ZA2.7654				AFE \$:	
Field Name: hBR_SAN JUAN 28-4 UNIT		Rig: Aztec Rig 673		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 Deviated							
Latitude: 36.625310	Longitude: -107.296952	X:	Y:	Section: 30		Range: 004W	
Footage X: 859 FWL		Footage Y: 818 FSL		Elevation: 6874 (FT)	Township: 028N		
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Deviated							
Latitude: 36.628872	Longitude: -107.291912	X:	Y:	Section: 30		Range: 004W	
Footage X: 2245 FWL		Footage Y: 4880 FSL		Elevation:	(FT)	Township: 028N	
Tolerance: 1959' 1658'							
Location Type: Restricted		Start Date (Est.): 1/1/2008		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6890 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	6690	<input type="checkbox"/>			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 169 cuft. Circulate cement to surface.	
OJAM	3162	3728	<input type="checkbox"/>				
KRLD	3341	3549	<input type="checkbox"/>				
FRLD	3442	3448	<input type="checkbox"/>			Possible Gas	
PCCF	3805	3085	<input type="checkbox"/>				
LEWS	3983	2907	<input type="checkbox"/>				
Intermediate Casing	4083	2807	<input type="checkbox"/>			8 3/4" hole. 7" 20/23 ppf J-55, STC/LTC casing. Circulate cement to surface. Cement with 968 cu.ft.	
CHRA	4796	2094	<input type="checkbox"/>				
UCLFH	5408	1482	<input type="checkbox"/>			Gas	
MASSIVE CLIFF HOUSE	5607	1283	<input type="checkbox"/>	991		Gas	
MENF	5653	1237	<input type="checkbox"/>				
PTLK	5972	918	<input type="checkbox"/>				
MNCS	6549	341	<input type="checkbox"/>				
GLLP	7179	-289	<input type="checkbox"/>				
GRHN	7942	-1052	<input type="checkbox"/>				
GRRS	8002	-1112	<input type="checkbox"/>				
TWLS	8054	-1164	<input type="checkbox"/>	1700		Gas	
PAGU	8118	-1228	<input type="checkbox"/>				
CBRO	8140	-1250	<input type="checkbox"/>				
CBRL	8190	-1300	<input type="checkbox"/>				
OAK CANYON	8252	-1362	<input type="checkbox"/>			TD T/OKCN	

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 28-4 UNIT 34N

DEVELOPMENT

TOTAL DEPTH DK	8252	-1362	<input type="checkbox"/>	6-1/4" Hole. 4-1/2", 10.6/11.6 ppf, J-55 STC/LTC casing. Cement with 568 cuft. Circulate cement a minimum of 100' inside the previous casing string.
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Reference Wells:		
Reference Type	Well Name	Comments
Production	SJ 28-4 #34	SW 30-28N-4W

Logging Program:	
Intermediate Logs:	<input type="checkbox"/> Log only if show <input type="checkbox"/> GR/ILD <input type="checkbox"/> Triple Combo

TD Logs:	<input type="checkbox"/> Triple Combo <input type="checkbox"/> Dipmeter <input type="checkbox"/> RFT <input type="checkbox"/> Sonic <input type="checkbox"/> VSP <input type="checkbox"/> TDT <input checked="" type="checkbox"/> 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 - MVNM028N004W30SW2 DK 28N04W30SW2 SHL at 818' FSL & 859' FWL and BHL at 1880' FSL & 2245' FWL.. MUDLOG 100' above GRHN to TD

Zones - MVNM028N004W30SW2 DK 28N04W30SW2

General/Work Description - 1/29/07 add DK formation w/now be MV/DK wfp; 2/7/07 Name was 28-4 #20C, but changed to 20N due to the addition of the DK..2/14/07 Name was changed from 20N to 34N.

ConocoPhillips or its affiliates

Survey Report

Company:	ConocoPhillips Lower 48	Local Co-ordinate Reference:	Well SJ 28-4 #34N
Project:	San Juan Basin	TVD Reference:	WELL @ 6890.0ft (Original Well Elev)
Site:	Monty's Site for directional MV/DK wells	MD Reference:	WELL @ 6890.0ft (Original Well Elev)
Well:	SJ 28-4 #34N	North Reference:	True
Wellbore:	SJ 28-4 #34N	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM Central Planning

Targets

Target Name	Dip Angle (d)	Dip Dir. (d)	TVD (ft)	+N/-S ft	+E/-W ft	Northing (m)	Easting (m)	Latitude	Longitude
hit/miss target									
- Shape									
SJ 28-4 #34N - ICP	0 00	0 00	4,083 0	812 0	1,031 0	243 01	317 83	30° 59' 32 549" N	109° 25' 32 249" W
- plan hits target									
- Point									
SJ 28-4 #34N - PCP	0 00	0 00	8,252.0	812.0	1,031.0	243 01	317 83	30° 59' 32.549" N	109° 25' 32 249" W
- plan hits target									
- Point									

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (d)	Dip Direction (d)
3,382 3	3,162 0	Ojo Alamo		0 00	
3,578 4	3,341 0	Kirtland		0 00	
3,686 8	3,442 0	Fruitland		0 00	
4,061 5	3,805 0	Pictured Cliffs		0 00	
4,240 4	3,983 0	Lewis		0 00	
5,053 5	4,796 0	Chacra		0 00	
5,665 5	5,408 0	Upper Cliffhouse		0 00	
5,864 5	5,607 0	Mass Cliffhouse		0 00	
5,910 5	5,653 0	Menefee		0 00	
6,229 5	5,972 0	Pt Lookout		0 00	
6,806 5	6,549 0	Mancos Shale		0 00	
7,436 5	7,179 0	Gallup		0 00	
8,199 5	7,942 0	Greenhorn		0 00	
8,259 5	8,002 0	Graneros		0 00	
8,311 5	8,054 0	Two Wells		0 00	
8,375 5	8,118 0	Paguate		0 00	
8,397 5	8,140 0	Upper Cubero		0 00	
8,447 5	8,190 0	Lower Cubero		0 00	
8,509 5	8,252 0	Oak Canyon		0 00	
8,509 5	8,252 0	TD		0 00	

Checked By: _____	Approved By: _____	Date: _____
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BURLINGTON RESOURCES OIL & GAS COMPANY LP

**SAN JUAN 28-4 UNIT 34N
818' FSL, 859' FWL
SECTION 30, T-28-N, R-4-W, N.M.P.M.,
RIO ARriba COUNTY, NEW MEXICO
ELEV. 6875 NAVD88
NEW ACCESS ROAD 79'**

DRIVING DIRECTIONS: FROM HWY 64 AT INTERSECTION FOREST ROAD (FR)314

- AT 2.6 MILES BLM GAME THEFT SIGN,
- AT 5.3 MILES FR 314 SIGN,
- AT 6.6 MILES STAY RIGHT, FR 314 SIGN,
- AT 7.5 MILES STAY RIGHT FR 314 SIGN,
- AT 7.8 MILES STAY LEFT AT -Y-
- AT 8.1 MILES FR SIGN, TURN RIGHT AT VIGAS MESA AT 357,
- AT 9.4 MILES FR 357 SIGN, STAY RIGHT AT 357,
- AT 9.6 MILES CROSS CATTLE GUARD 320 M-10 BR,
- AT 10.2 MILES VIGAS MESA SIGN,
- AT 10.5 MILES BEGINNING ACCESS TO BROG VALDEZ #7M,
- AT 11.0 MILES -Y- STAY RIGHT AT 357,
- AT 12.3 MILES WELL PAD, STAY LEFT,
- AT 12.8 MILES PASS ANTENA TOWER ON LEFT,
- AT 13.0 MILES ROAD SPLITS 357/358, TURN RIGHT ON FR 358
- AT 13.5 MILES LEAVING CARSON NATIONAL FOREST CROSS CATTLE GUARD
- AT 13.7 MILES -Y- STAY RIGHT, LEAVING FR 358
- AT 13.8 MILES START DESENDING INTO MUNOZ CANYON,
- AT 14.7 MILES CROSS CATTLE GUARD
- AT 15.0 MILES BOTTOM OF PASS, CROSS WELL PAD
- AT 15.1 MILES TURN RIGHT OFF MAIN ROAD AND PROCEED UP INTO MUNOZ CANYON, AT 15.4 MILES NEW WELL STAKE RIGHT SIDE OF ACCESS ROAD SAN JUAN UNIT #29M.
- AT 15.5 MILES CONTINUE TO 28-4 UNIT 20M & 20B TWIN, TURN RIGHT AND CROSS CATTLE GUARD, INTO MUNOZ CANYON.
- AT 15.6 MILES ENTER WELL PAD BROG SAN JUAN 28-4 20-30, BEGIN ACCESS TO BROG SAN JUAN 28-4 UNIT 20C.