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FEB 23 2010

Bureau of Land Management
Farmington Field Office

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a.	Type of Work DRILL	5. Lease Number SF-077282 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 RCVD MAR 16 '10 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 Grenier A 9. Well Number 4M
4.	Location of Well Surf:Unit D(NWNW), 755' FNL & 660' FWL Surf: Latitude: 36.78831° N (NAD83) Longitude: 107.86057° W	10. Field, Pool, Wildcat Blanco MV / Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) D Sec. 26, T30N, R10W API # 30-045- 35106
14.	Distance in Miles from Nearest Town 10 miles / Aztec	12. County San Juan 13. State NM
15.	Distance from Proposed Location to Nearest Property or Lease Line 660'	
16.	Acres in Lease 793.620	17. Acres Assigned to Well 316.24 86 W/2 - MV & 318.86 6 W/2 - DK
18.	Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 1185' from Grenier A 1A (PC/MV)	
19.	Proposed Depth 7227'	H_2S POTENTIAL EXIST 20. Rotary or Cable Tools Rotary
21.	Elevations (DF, FT, GR, Etc.) 6131' GL	22. Approx. Date Work will Start
23.	Proposed Casing and Cementing Program See Operations Plan attached	
24.	Authorized by: Crystal Tafoya Crystal Tafoya (Regulatory Tech)	Date 2/23/2010

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE AFM DATE 3/15/2010

Archaeological Report attached
Threatened and Endangered Species Report attached

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

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**

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

MAR 19 2010
NMOCD

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

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

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

RECEIVED
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Farmington Field Office

Form C-102
Revised October 12, 2005
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹API Number	²Pool Code	³Pool Name
30-045-35106	72319 / 71599	BLANCO MESAVERDE / BASIN DAKOTA

⁴Property Code	⁵Property Name	⁶Well Number
18531	GRENIER A	4M

⁷OGRID No.	⁸Operator Name	⁹Elevation
14538	BURLINGTON RESOURCES OIL & GAS COMPANY LP	6131'

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	26	30N	10W		755	NORTH	660	WEST	SAN JUAN

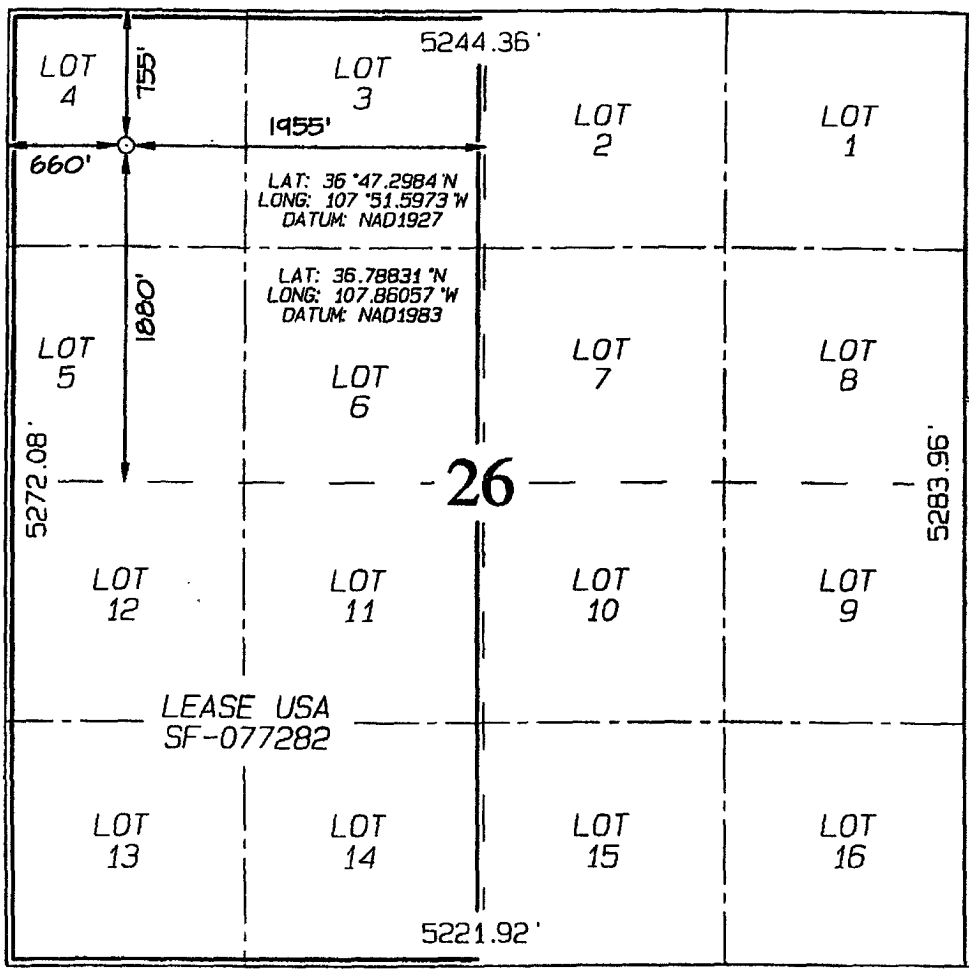
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
316.24 Acres (MV) - W/2 318.86 Acres (DK) - W/2			

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 working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Ethel Tally 9/16/09
Signature Date

Ethel Tally
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

Date of Survey: MAY 14, 2009

Signature and Seal of Professional Surveyor

JASON C. EDWARDS
NEW MEXICO
15269
REGISTERED PROFESSIONAL SURVEYOR

JASON C. EDWARDS
Certificate Number 15269

ConocoPhillips

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

GRENIER A 4M **DEVELOPMENT**

Lease:	AFE #: WAN.CDR.9091			AFE $: 0.00
Field Name: SAN JUAN	Rig: H&P Rig 282	State: NM	County: SAN JUAN	API #:
Geologist:	Phone:	Geophysicist:		Phone:
Geoscientist:	Phone:	Prod. Engineer:		Phone:
Res. Engineer:	Phone:	Proj. Field Lead:		Phone:

Primary Objective (Zones):

Zone	Zone Name
FRR	BASIN DAKOTA (PRORATED GAS)
RON	BLANCO MESAVERDE (PRORATED GAS)

Location: Surface Datum Code: NAD 27 Straight Hole

Latitude: 36.788305	Longitude: -107.859951	X:	Y:	Section: 26	Range: 010W
Footage X: 660 FWL	Footage Y: 755 FNL	Elevation: 6131 (FT)	Township: 030N		

Tolerance:

Location Type: Year Round Start Date (Est.): 1/1/2011 Completion Date: Date In Operation:

Formation Data: Assume KB = 6145 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
NACIMIENTO	8	6137	☐			
Surface Casing	200	5945	☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 200 cuft. Circulate cement to surface.
OJO ALAMO	1399	4746	☐			
KIRTLAND	1548	4597	☐			
FRUITLAND	2164	3981	☐			Possible Gas
PICTURED CLIFFS	2729	3416	☐			
LEWIS	2863	3282	☐			
Intermediate Casing	2963	3182	☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with ~~2963~~ 665 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	3432	2713	☐			
CHACRA	3690	2455	☐			
UPPER CLIFF HOUSE	4276	1869	☐			Gas; Est. Top Perf - 4278 (1867)
MASSIVE CLIFF HOUSE	4323	1822	☐	476		Gas
MENEFEE	4470	1675	☐			
POINT LOOKOUT	4968	1177	☐			
MANCOS	5323	822	☐			
UPPER GALLUP	6215	-70	☐			
GREENHORN	6947	-802	☐			
GRANEROS	6993	-848	☐			
TWO WELLS	7043	-898	☐	2302		Gas
PAGUATE	7131	-986	☐			
UPPER CUBERO	7182	-1037	☐			
LOWER CUBERO	7187	-1042	☐			Est. Btm Perf - 7207 (-1062) based on offset wells
Total Depth	7227	-1082	☐			6-1/4" hole, 4-1/2" 11.6 ppf,N-80, STC/LTC casing. Cement w/ 580 cuft. Circulate cement a minimum of 100' inside the previous casing string.
ENCINAL	7248	-1103	☐			TD - 45' below T/CBRO

Reference Wells:

Printed on: 2/22/2010 9:57:37 AM

ConocoPhillips

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

GRENIER A 4M **DEVELOPMENT**

Reference Type	Well Name	Comments
Production	Grenier 4A	30N 10W 26 SW SW
Production	Riddle B5	30N 10W 23 NE SW SE
Production	Riddle 1-27	30N 10W 27 SW NE
Production	Grenier A 4E	30N 10W 26 NW SE NW

Logging Program:

Intermediate Logs: ☐ Log only if show ☐ GR/ILD ☐ Triple Combo

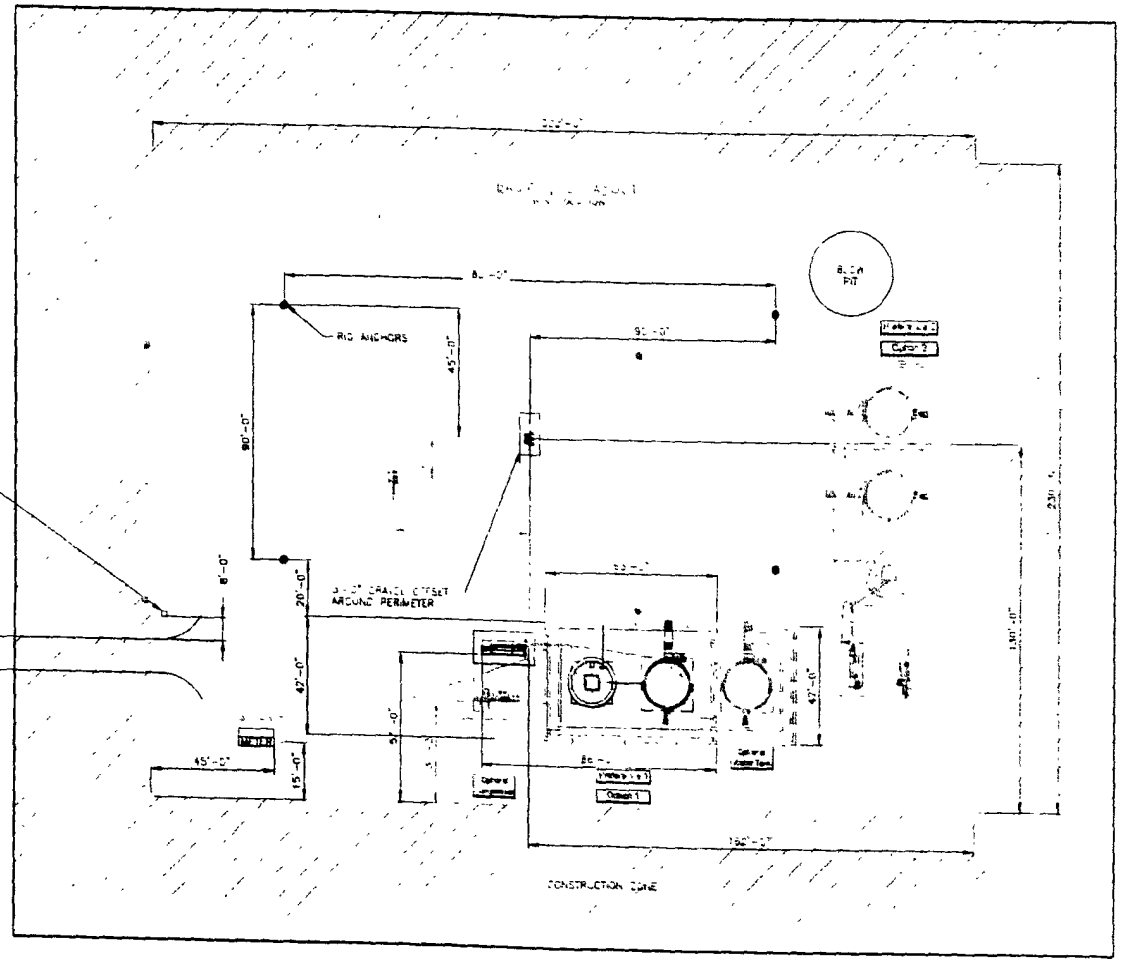
TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☑ Other

Cased Hole GR / CBL
Est. Btm Perf - 7207 (-1062) based on offset wells

Additional Information:

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

Printed on: 2/22/2010 9:57:37 AM



SEE DWG T-3 & T-4 FOR PIPING DETAILS
ALL UNDERGROUND PIPE IS TO BE BURIED A MIN OF 3'-0" DEEP

NO	DESCRIPTION	DATE	BY	CHK'D	ENG.	DSE	PM

ENGINEERING REVIEW			
DISCIPLINE	RECORD	DATE
CIVIL		
MECHANICAL		
PIPING		
ELECTRICAL		
I & C		
CIVIL/STRUCTURAL		
PROJECT		

REFERENCE DRAWINGS	
NO	DESIGNATION

ConocoPhillips

SAN JUAN BUSINESS UNIT

HIGH PRESSURE 3 PHASE
FACILITY DIAGRAM - SITE LAYOUT

HP3PHASE-REV

Directions from the Intersection of US Hwy 550 & State Hwy 173 in Aztec, NM

to Burlington Resources Oil & Gas Company Grenier A #4M

755' FNL & 660' FWL, Section 26, T30N, R10W, N.M.P.M., San Juan County, NM

Latitude : 36.78831°N Longitude : 107.86057°W Datum : NAD1983

From the intersection of US Hwy 550 & State Hwy 173 in Aztec, NM, travel Easterly on State Hwy 173 for 8.3 miles;

Go right (South-westerly) for 0.3 miles to 4-way intersection;

Go straight (South-westerly) @ 4-way intersection for 0.7 miles to staked location on right-hand side which overlaps the existing roadway.