

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	RECEIVED MAR 25 2008 Bureau of Land Management Farmington Field Office	5. Lease Number USA NM-048571 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
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700		8. Farm or Lease Name Leo Manning 9. Well Number #100S
4. Location of Well Surf: Unit N (SESW), 1129' FSL & 2459' FWL Surf: Latitude 36.73606° N Longitude 107.96153° W		10. Field, Pool, Wildcat Basin FC 11. Sec., Twn, Rge, Mer. (NMPM) N Sec. 11, T29N, R11W API # 30-045-34668
14. Distance in Miles from Nearest Town 3 miles/Bloomfield	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1129'		
16. Acres in Lease 280.00	17. Acres Assigned to Well 320.00 Acres - (S/2) - FC	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 50- from Fogelson #2		
19. Proposed Depth 2159' <small>This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4</small>	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 5660' GR	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached	DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".	
24. Authorized by: <u>Sasha Spangler</u> Sasha Spangler (Regulatory Technician)	<u>3-25-08</u> 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 2

Bond Numbers NMB-000015 and NMB-000089

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

NMOCDB

APR 14 2008
AV

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

DISTRICT II
1301 W. 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

Form C-102
Revised October 12, 2005

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

MAR 25 2008

Oil Land Management ☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045 - 34668	² Pool Code 71629	³ Pool Name BASIN FRUITLAND COAL
⁴ Property Code 37082	⁵ Property Name LEO MANNING	⁶ Well Number 100 S
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 5660'

¹⁰ Surface Location

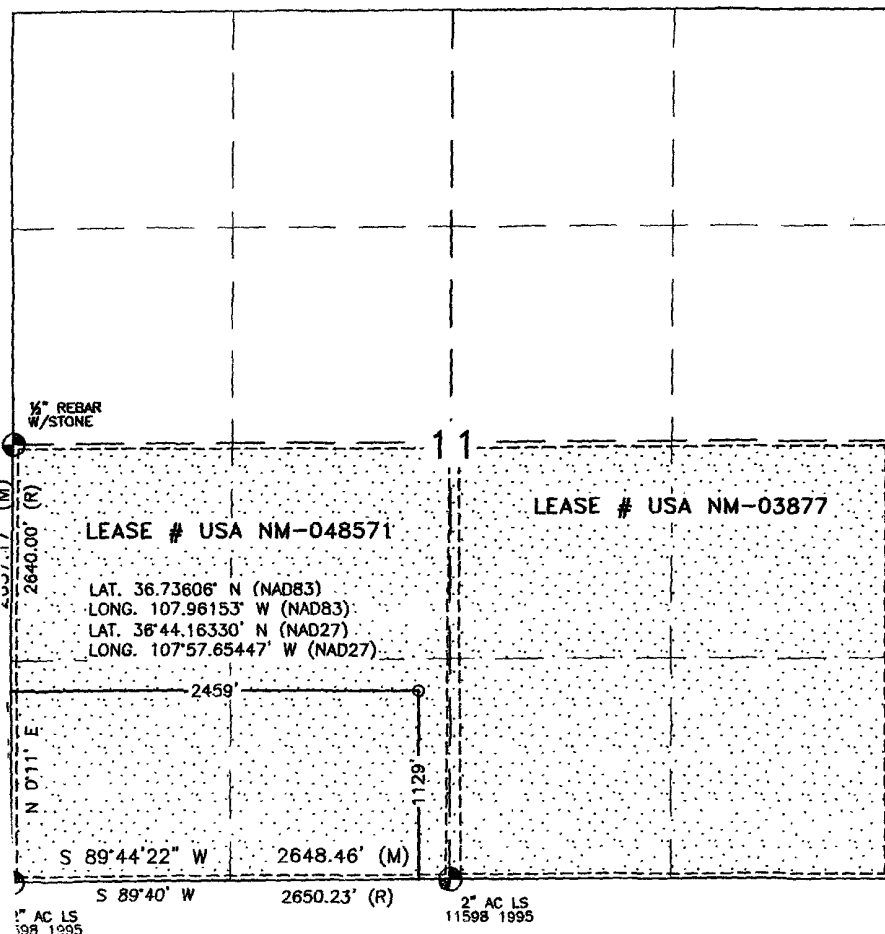
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	11	29N	11W		1129'	SOUTH	2459'	WEST	SAN JUAN

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
N									
¹² Dedicated Acres 320.00 Acres - (S/2)			¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.		

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 or a compulsory pooling order heretofore entered by the division.

Sasha Spangler 03-19-08
Signature Date

Sasha Spangler
Printed Name

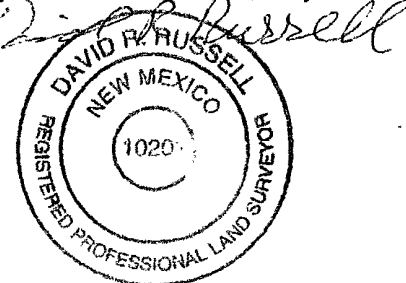
¹⁸ SURVEYOR CERTIFICATION

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.

NOVEMBER 5, 2007

Date of Survey

Signature and Seal of Professional Surveyor:



DAVID RUSSELL

Certificate Number

10201

Office

Energy, Minerals and Natural Resources

May 27, 2004

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

OIL CONSERVATION DIVISION

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

WELL API NO.

30-045-34668

5. Indicate Type of Lease

STATE ☐FEE ☐

6. State Oil & Gas Lease No.

NM-048571

7. Lease Name or Unit Agreement Name

Leo Manning

8. Well Number

#100S

9. OGRID Number

14538

10. Pool name or Wildcat

FC
Basin DakotaSUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH
PROPOSALS.)

1. Type of Well:

Oil Well ☐Gas Well ☒

Other

2. Name of Operator

BURLINGTON RESOURCES

3. Address of Operator

3401 E. 30TH STREET, FARMINGTON, NM 87402

4. Well Location

Unit Letter N : 1129 feet from the South line and 2459 feet from the West line
Section 11 Township 29N Rng 11W NMPM County San Juan

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

5660' GR

Pit or Below-grade Tank Application

or Closure ☐

Pit type

New Drill

Depth to Groundwater

>100'

Distance from nearest fresh water well

>1000'

Distance from nearest surface water

<1000'

Pit Liner Thickness:

12

mil

Below-Grade Tank:

Volume

4400

bbls;

Construction Material

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐PLUG AND ABANDON ☐TEMPORARILY ABANDON ☐CHANGE PLANS ☐PULL OR ALTER CASING ☐MULTIPLE COMPL ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ALTERING CASING ☐COMMENCE DRILLING OPNS. ☐P AND A ☐CASING/CEMENT JOB ☐

OTHER:

New Drill ☒OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

New Drill, Lined:

Burlington Resources proposes to construct a new drilling pit, an associated vent/flare pit and a pre-set mud pit (if required). Based on Burlington's interpretation of the Ecosphere's risk ranking criteria, the new drilling pit and pre-set mud pit will be lined pits as detailed in Burlington's Revised Drilling / Workover Pit Construction / Operation Procedures dated November 11, 2004 on file at the NMOCD office. A portion of the vent/flare pit will be designed to manage fluids and that portion will be lined as per the risk ranking criteria. Burlington Resources anticipates closing these pits according to the Drilling / Workover Pit Closure Procedure dated August 2, 2004 on file at the NMOCD office.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☒ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE

TITLE

Regulatory Technician

DATE

3/6/2008

Type or print name

Crystal Walker

E-mail address:

crystal.walker@conocophillips.com

Telephone No.

505-326-9837

For State Use Only

APPROVED BY

TITLE

Deputy Oil & Gas Inspector,
District #3

DATE

APR 14 2008

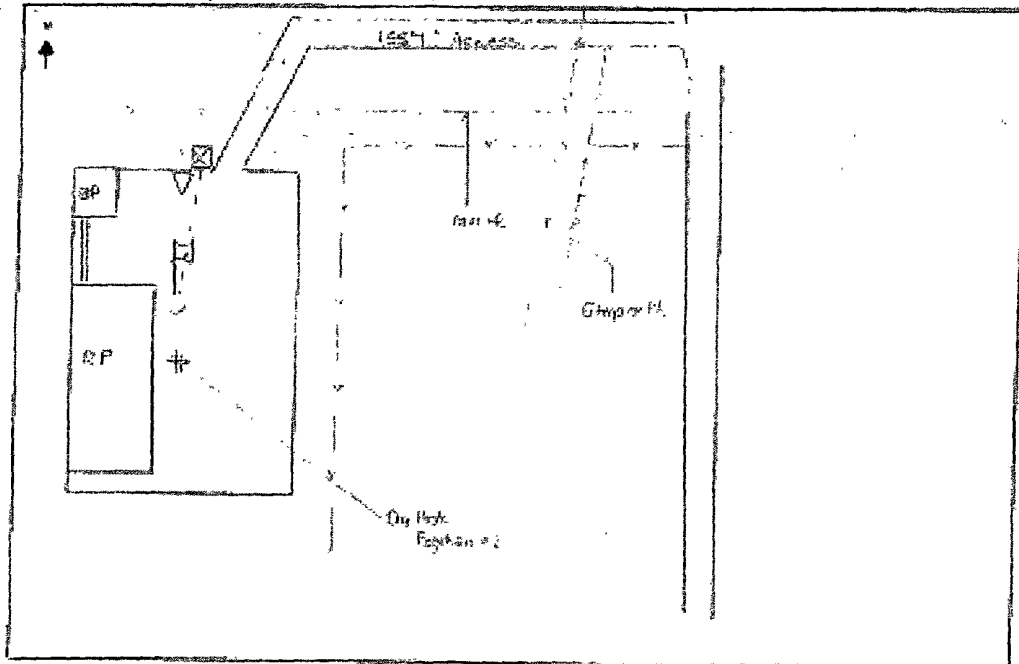
Conditions of Approval (if any):



CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME Leo Manning #1008 LEGALS N-11-29-11 COUNTY San Juan

PURPOSED C.P. SYSTEM: Build SR and set CP well system on 10 acre lot 11th increasing (11/20/07) (11/20/07). Trench across lot at 11th from underground well to SR.



COMMENTS:

NEAREST POWER SOURCE Overhead air DISTANCE over 1000'

PIPELINES IN AREA: San Juan 11th 11th

TECHNICIAN: H. L. L. L. L. L. DATE: 12/16/07

6 CR 5412 BLOOMFIELD, N.M. 87413
OFFICE: 505-634-0271 CELL: 505-793-6053

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

LEO MANNING 100S

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7447		AFE \$: 184,118.41	
Field Name: hBR_SAN JUAN		Rig: Aztec Rig 580		State: NM	County: SAN JUAN
Geologist:		Phone:		Geophysicist:	
Geoscientist: Clark, Dave D		Phone: 505-326-9762		Prod. Engineer:	
Res. Engineer:		Phone:		Proj. Field Lead:	
				Phone:	

Primary Objective (Zones):

Zone	Zone Name
JCV	BASIN FRUITLAND COAL (GAS)

Location: Surface		Datum Code: NAD 27		Straight Hole	
Latitude: 36.736055	Longitude: -107.960908	X:	Y:	Section: 11	Range: 011W
Footage X: 2459 FWL	Footage Y: 1129 FSL	Elevation: 5660	(FT)	Township: 029N	
Tolerance:					

Location Type: Year Round	Start Date (Est.): 1/1/2009	Completion Date:	Date In Operation:
Formation Data: Assume KB = 5672 Units = FT			

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	120	5552	<input type="checkbox"/>			8-3/4 hole. 7" 20 ppf, J-55 STC csg. Cement with 50 cuft. Circulate cement to surface.
OJO ALAMO	688	4984	<input type="checkbox"/>			
KIRTLAND	800	4872	<input type="checkbox"/>			
FRUITLAND	1558	4114	<input type="checkbox"/>	300		Gas
PICTURED CLIFFS	1959	3713	<input type="checkbox"/>			Gas
Total Depth	2159	3513	<input type="checkbox"/>			6-1/4" hole. 4-1/2" 10.5 ppf, J-55, STC casing. Cement with 332 cuft. Circulate cement to surface.

Reference Wells:

Reference Type	Well Name	Comments
Production	Fogelson 2-11	SE11-29-11

Logging Program:

Intermediate Logs: ☐ Log only if show ☐ GR/ILD ☐ 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 checked="" type="checkbox"/> TDT	<input type="checkbox"/> Other
GR/CBL							

Additional Information:

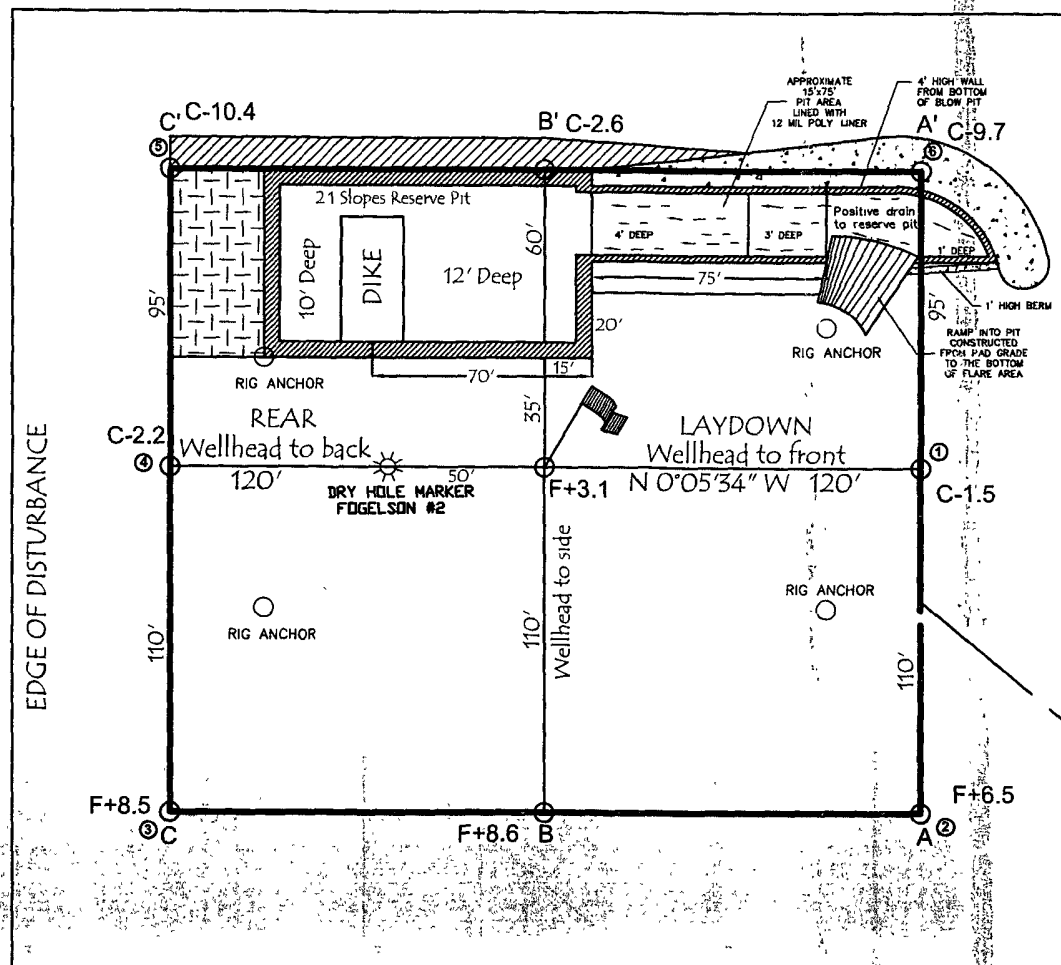
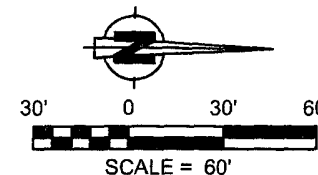
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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LATITUDE: 36.73606°N
 LONGITUDE: 107.96153°W
 DATUM: NAD 83

BURLINGTON RESOURCES O&G CO LP

LEO MANNING #100 S
 1129' FSL & 2459' FWL
 LOCATED IN THE SE/4 36/4 OF SECTION 11,
 T29N, R11W, N.M.P.M.,
 SAN JUAN COUNTY, NEW MEXICO
 GROUND ELEVATION: 5660', NAVD 88
 FINISHED PAD ELEVATION: 5663.4', NAVD 88

SLOPES TO BE CONSTRUCTED TO
 MATCH THE ORIGINAL CONTOURS
 AS CLOSE AS POSSIBLE.



305' x 340' = 2.38 ACRES OF DISTURBANCE
 SCALE: 1" = 60'
 JOB No.: COPC127
 DATE: 11/20/07

NOTE:
 RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).
 RUSSELL SURVEYING, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.
 CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED, BURIED PIPELINES OR
 CABLES ON WELL PAD, IN CONSTRUCTION ZONE AND/OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR
 TO CONSTRUCTION.



Russell Surveying
 1409 W. Aztec Blvd. #2
 Aztec, New Mexico 87410
 (505) 334-8637

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