



DEPARTMENT of ENVIRONMENT and NATURAL RESOURCES  
 Minerals & Mining Program - Oil & Gas Section  
 2050 West Main, Suite #1, Rapid City, SD 57702-2493  
 Telephone: 605-394-2229, FAX: 605-394-5317

FORM 2  
**RECEIVED**  
**JUL 09 2012**

DEPT OF ENVIRONMENT & NATURAL  
 RESOURCES - RAPID CITY

State of South Dakota  
 Department of Environment  
 and Natural Resources

**APPLICATION FOR PERMIT TO DRILL**

Type of work:  Drill New Well  Reenter Well  Drill Directional Well  Other Drill Horizontal Well

Type of well:  Oil Well  Gas Well  Injection  Other \_\_\_\_\_

Name and Address of Operator: **Citation Oil & Gas Corp.** PO Box 690688, Houston, TX 77269 Telephone: **281-891-1570**

Name and Address of Surface Owner: **State of South Dakota Commissioner of Schools & Public Lands 500 Capitol Ave, SD 57501**

Name and Address of Drilling Contractor and Rig Number: **C&H Well Service 6480 Swanson Rd, Gillette WY 82718 Rig #104**

Surface Location of well: Qtr-Qtr, Sec, Twp, Rge, County, feet from nearest lines of section, and latitude and longitude (if available):

**SE NW 760 FSL & 1980 FWL Section 16-21N-3E, Harding County**

If Directional, top of pay and bottom hole location from nearest lines of section:

**1723' FNL & 1587 FEL Section 21-21N-3E Harding County**

Acres in Spacing (Drilling) Unit

**3,360 acres**

Description of Spacing Unit

**WBRRBU**

Well Name and Number <b>API 40-063-20438</b> <b>State 14-16</b>	Elevation <b>3170'</b>	Field and Pool, or Wildcat <b>West Buffalo Red River "B"</b>	Proposed Depth and Formation <b>8326' TVD, Red River Dolomite</b>
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Size of Hole	Size of Casing	Weight per Foot	Depth	Cementing Program (amount, type, additives)	Depth
1) 12 1/4	9 5/8"	36#	1533	stage 1 225 sx 50/50 tail 100 sx class H surface	
2) 8 3/4	5 1/2"	17, 20#	8407	stage 2 385 sx class H tail 390 sx 505/Poz	4210'
3)					
4)					

Describe Proposed Operations (Clearly State all Pertinent Details, and Give Pertinent Dates, Including Estimated Date of Starting any Proposed Work). Use additional page(s) if appropriate.

Citation Oil & Gas Corp. requests approval to drill +/- 3020 lateral in the referenced well in The Red B River per the attached procedures. The estimated start date will be July 2012. All cuttings and drilling fluids will be contained in a pit lined with at least 12 mil plastic liner. Plugging Bond #10406158, Surface Restoration Bond #104061660.

I hereby certify that the foregoing as to any work or operation performed is a true and correct report of such work or operation.

*Nathania Naftaly* Signature      **Nathania Naftaly** Name (Print)      **Permitting Analyst III** Title      **7/5/12** Date

**FOR OFFICE USE ONLY**

Approved By: *[Signature]* Title: *Minerals & Mining Prog. Admin*

Permit No. 2012 API No. 40 063 20438.01 Date Issued: 7/11/12

Conditions, if any, on attached page.



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*Minerals & Mining Program  
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**PERMIT CONDITIONS**

Citation: 14-16H State  
21N-3E-16 SENW, Harding County

Permit: #2012  
API: 40 063 20438.01

Approval has been granted to drill this location as detailed on the attached Application for Permit to Drill (Form #2) with the following additional conditions:

1. This permit is conditioned on compliance with all applicable requirements of South Dakota Codified Laws 45-9 and Administrative Rules of South Dakota 74-12.
2. A 12-mil woven, reinforced high-density polyethylene liner must be used on all pits.
3. Surface runoff must be diverted around the drill site.
4. If horizontally drilled:
  - A. The coordinates of the production casing shoe and the well terminus must be filed with the department.
  - B. The azimuth of the horizontal segment of the well must be filed with the department along with the results of periodic down hole surveys.
5. If abandoned:
  - A. With long string, sufficient cement must be circulated to install:
    1. A 100-foot cement plug immediately above the KOP.
    2. A 100-foot cement plug, half in and half out of the top of the casing stub after the retrievable part of the production casing has been removed.
    3. A 100-foot cement plug, half in and half out of the top of any fresh water aquifer between the top of the casing stub and the base of the surface casing. Freshwater resources at this site include: Madison, Minnelusa, Minnekahta, Canyon Springs, and Inyan Kara.
    4. A 100-foot plug, half in and half out of the base of the surface casing.
    5. A 25-foot cement plug at the top of the surface casing.
  - B. Heavy, mud-laden fluid must be used between all plugs.
  - C. The casing string must be cut off at least three feet below the final ground surface contour. A plate with the name of the operator, well name and number, and legal location by quarter-quarter section, township and range must be welded to the casing stub. The location of the abandoned well must be surveyed with high resolution global positioning system equipment or other appropriate survey methods sufficient to accurately locate the well. Survey coordinates must be included in the final abandonment report.
6. Surface reclamation of the site must be completed within one year of plugging and abandoning the well.
7. A washed set of sample cuttings (or cores, if cut) must be shipped, free of charge, to:

Derric Iles  
Geological Survey Program  
Akeley-Lawrence Science Center  
University of South Dakota  
414 E. Clark Street  
Vermillion, SD 57069-2390

8. Please notify this office prior to plugging so a witness can be on location. If plugging will occur after regular business hours, call Lucy Dahl at 605-773-6257.