



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

Oil Conservation Division
1220 S. Francis Drive
Santa Fe, NM 87505

RE: Proposed:
MC
DHC
NSL
NSP
SWD
WFX
PMX

Gentlemen:

I have examined the application for the:

Chevron USA Inc West Dolarhide Drinkard Unit # 114 C, 5-255-38e
Operator Lease & Well No. Unit S-T-R API # 30-025-31499

and my recommendations are as follows:

[Handwritten signature]

Yours very truly,

Chris Williams
Chris Williams
Supervisor, District 1

Texaco Exploration and production Co.  
J. Denise Wann  
Technical Team Leader  
15 Smith Road  
Midland, Texas 79705  
wannjd@chevrontexaco.com

WFX  
6/30/03 7/21/03 WUJ LR PLR0318239739

June 16, 2003

**ChevronTexaco**

**APPLICATION FOR AUTHORIZATION  
TO INJECT - OCD FORM C-108  
WEST DOLLARHIDE DRINKARD UNIT  
DOLLARHIDE TUBB DRINKARD POOL  
LEA COUNTY, NEW MEXICO**

RECEIVED  
JUN 30 2003  
Oil Conservation Division

State of New Mexico  
Energy and Minerals Dept.  
Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, NM 87505

Attention: Ms. Lori Wrotenbery, Director

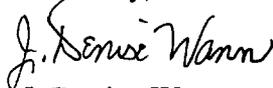
ChevronTexaco Exploration and Production Co. requests your approval of the subject application to inject water into the West Dollarhide Drinkard Unit well # 11.4H, located: 108' FNL & 2325' FWL, Unit Letter C, Sec. 5, T25S-R38E, Lea County, New Mexico.

Chevron plans to convert this dual lateral horizontal producer to injection as part of an ongoing infill drilling and pattern re-alignment program. This conversion will provide the much needed injection support in this area and enhance the production of the WDDU secondary recovery unit.

Attached is an OCD Form C-108 with information relative to the water injection conversion of the referenced well. A copy of the letter sent to applicable surface land owners and offset operators is included in the attachments.

Your prompt consideration and approval of this application will be greatly appreciated. If additional information is required, please contact me at (915) 687-7380.

Sincerely,



J. Denise Wann  
Technical Team Leader  
New Mexico Waterfloods

File  
Attachments

## Jones, William V

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**From:** Welch, Cynthia L (Cindy) [CynthiaWelch@chevrontexaco.com]  
**Sent:** Wednesday, August 06, 2003 2:58 PM  
**To:** Jones, William V  
**Cc:** Wann, J D (Denise)  
**Subject:** RE: West Dollarhide Drinkard Unit #114H



WDDU  
114\_H-WB.XLS

William- Actually, your questions prompted me to check the wellbore diagram that we sent you. Both legs of this horizontal have kick off points in the Drinkard Formation. Apparently, there was an inaccurate top entered into the wellbore diagram. I have attached the corrected diagram to reflect this top change. The top of the Drinkard is actually at 6192'. I apologize for this confusion.

In regards to a liner. We have no plans to run a liner or additional logs in either leg of this horizontal. The West Dollarhide Drinkard Unit is actually unitized from the Tubb through the Abo, although we are planning on only injecting into the Drinkard. We have sufficient data that indicates a high degree of reservoir compartmentalization both vertically and horizontally, therefore it is likely that we won't be able to effectively inject into the entire 6340-6410' interval...much less any further out into the Tubb. Please let me know if you have any more questions or need additional info. Thank you again for your time!

Cindy

-----Original Message-----

**From:** Jones, William V [mailto:WVJones@state.nm.us]  
**Sent:** Wednesday, August 06, 2003 8:51 AM  
**To:** Welch, Cynthia L (Cindy)  
**Subject:** RE: West Dollarhide Drinkard Unit #114H

Hello Cindy;  
Thanks for the rapid reply. How will you ensure only the 6340-6410 Dkrd zone takes water? In other words, are you running perforated liners in each leg and will you cement each one? The kickoff depth puts each leg beginning in the Tubb. Will you be open hole logging each leg?

Regards,  
Will Jones

William V Jones, PE  
1220 S St. Francis Dr.  
Santa Fe, NM 87505  
505-476-3448  
wvjones@state.nm.us <mailto:wvjones@state.nm.us>

-----Original Message-----

**From:** Welch, Cynthia L (Cindy) [mailto:CynthiaWelch@chevrontexaco.com]  
**Sent:** Wednesday, August 06, 2003 7:23 AM  
**To:** WVJones@state.nm.us  
**Cc:** Wann, J D (Denise)  
**Subject:** FW: West Dollarhide Drinkard Unit #114H

Hi Mr. Jones-

Denise Wann asked me to respond to your e-mail regarding the West Dollarhide Drinkard Unit #114H conversion. I am the geologist for this field. The TVD top and base of the injection zone are: 6340' and 6410', respectively. The only formation we are targeting for injection is the Drinkard Fm. If you have any further questions, please feel free to call or e-mail me at the contact information below. Thank you for your time on processing this.

Cheers,

Cynthia L. Welch  
ChevronTexaco  
Geoscientist: Eunice Waterflood Team CynthiaWelch@ChevronTexaco.com  
15 Smith Rd. Rm 3130  
Midland, TX 79705  
432-687-7320 (office) \*\*\*Please note area code change\*\*\* 432-687-7557  
(fax)

-----Original Message-----

From: Jones, William V [mailto:WVJones@state.nm.us]  
Sent: Monday, August 04, 2003 6:07 PM  
To: Wann, J D (Denise)  
Subject: West Dollarhide Drinkard Unit #114H

Hello Ms Wann;  
I am processing this application to inject.

You have done lots of work on the wellbore diagrams and the application in general. In the future, please include the cement top and method of calculation in the table of wells in the Area of Review even though the data is also available on the diagrams. For this application, no changes are necessary.

One thing I do need is the True Vertical Depths (Top and Bottom) that you plan to inject. Your diagram has the Measured Depth, but I am failing to find the TVD. Is the formation only the Drinkard or is the Tubb also targeted for injection?

After you reply, I will finish this application, the application and order will be scanned onto our website at <http://www.emnrd.state.nm.us/ocd/> and also the order mailed back to you for your records.

Regards,

William V Jones, PE  
1220 S St. Francis Dr.  
Santa Fe, NM 87505  
505-476-3448  
wvjones@state.nm.us <mailto:wvjones@state.nm.us>