

**1R - 399**

**CLOSURE**

**2012**

State of New Mexico  
Energy, Minerals and Natural Resources Department

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Susana Martinez  
Governor

John Bemis  
Cabinet Secretary

Brett F. Woods, Ph.D.  
Deputy Cabinet Secretary

Jami Bailey  
Division Director  
Oil Conservation Division



October 2, 2012.

Chris Biagi  
Devon Energy Corporation  
333 West Sheridan Avenue  
Oklahoma City, Oklahoma 73102-5010

**RE: Patsy Tank Battery (1R-66, -399, and -433) in Unit Letter B of Section 18, Township 20 South, Range 37 East NMPM in Lea County, New Mexico**

Chris,

I have received your email of September 19, 2012 describing abandonment of the remaining groundwater monitoring wells and seeking termination of remedial actions in association with historic releases at the former Patsy Battery southwest of Monument, New Mexico. The available information indicates Devon Energy Corporation (Devon) has met the requirements of 19.15.29 NMAC and no further action is required. You are hereby notified that the remediation plans associated with this former facility are closed.

This determination by the Oil Conservation Division does not relieve Devon of responsibility should future information indicate a threat to groundwater, surface water, human health, or the environment. Furthermore, it does not relieve Devon of responsibility for compliance with any federal, state, or local laws and/or regulations.

Respectfully,

A handwritten signature in black ink, appearing to read "J. Griswold", is written over a horizontal line.

Jim Griswold  
*Senior Hydrologist*

cc: Geoff Leking, OCD District I Office, Hobbs  
Mike Griffin, Whole Earth Environmental  
Wayne Price

## Griswold, Jim, EMNRD

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**From:** wayne price <wayneprice77@earthlink.net>  
**Sent:** Wednesday, September 19, 2012 5:21 PM  
**To:** Griswold, Jim, EMNRD  
**Cc:** Chris Biagi; Mike Griffin; Roy Rascon  
**Subject:** Devon Final MW P&A report.  
**Attachments:** Devon Patsy P&A .pdf

Dear Jim,

On behalf of Devon Energy Corporation, Mr. Chris Biagi, we are requesting final closure and no further action status for the Pasty Tank Battery (1R-66, -399, and -433) located in UL B Sec 18-Ts20s-R37e in Lea county NM.

On August 10 and 11, 2012, Devon contracted with Whole Earth/Earth Technologies to properly plug and abandon the five remaining monitor wells, MW-1,4,5,6 &7. MW-2 and 3 had previously been removed during the remediation activities. Price LLC was contracted by Devon to act as a third party independent witness of all closure activities.

All monitor well concrete foundations and integral pipe risers were dug out by hand, supported by a rig truck and the PVC pipe was cut before the ground surface and unit removed. Each well was subsequently filled with a cement grout containing 3-5% bentonite with a calculated compressive strength of 3000 psi. The dug out holes and pipe were poured a second time, topped off, to account for shrinkage. All pipes were left below grade level about one foot, with a cement slurry placed over the top of the pipe, and partially filled the hole. Each hole was inspected 24 hours later to ensure cement coverage, and then covered with native soil. All Monitor Well locations have been logged with a GPS and is part of the existing file.

Please find attached, a series of photos showing the typical series of events for the P&A process.

Please send final approval to:

Mr. Chris Biagi  
Devon Energy Corporation  
333 West Sheridan Avenue  
Oklahoma City, Oklahoma 73102-5010  
[chris.biagi@devn.com](mailto:chris.biagi@devn.com)

Devon Patsy Site- Photo  
Documentation of MW P&A.1RP-433

NE/4 Sec 18-Ts20s-R37e Lea Co.

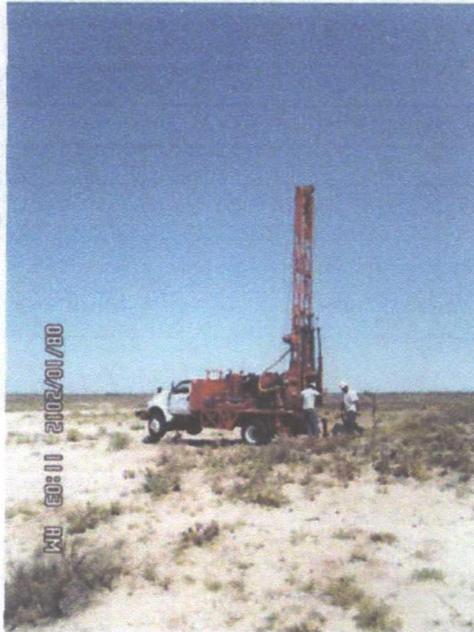
Aug 2012



Atkins rig @ water pump traile



Typical removal process- dug around  
MW and hand cut pipe and removed  
with rig.



Rig tying onto MW casing protector.



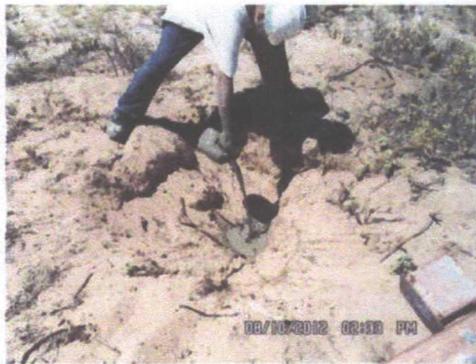
Each MW was filled with Cement  
Type I-II and 1-3% bentonite grout.



Type I-II Cement Bags



Holes filled with cement grout



Topping of each hole to counter slumping.



24 hours later-each hole was backfilled with native soil.

State of New Mexico  
Energy, Minerals and Natural Resources Department

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Susana Martinez  
Governor

John Bemis  
Cabinet Secretary

Brett F. Woods, Ph.D.  
Deputy Cabinet Secretary

Jami Bailey  
Division Director  
Oil Conservation Division



August 6, 2012

Chris Biagi  
Devon Energy Corporation  
333 West Sheridan Avenue  
Oklahoma City, Oklahoma 73102-5010

**RE: Patsy Tank Battery (1R-66, -399, and -433) in Unit Letter B of Section 18, Township 20 South, Range 37 East NMPM in Lea County, New Mexico**

Chris,

I have received your letter of June 28, 2012 concerning the former Patsy Battery southwest of Monument, New Mexico. Proceed with the proper plugging and abandonment of the five remaining groundwater monitoring wells. Once this is accomplished, please forward a comprehensive report of the plugging activities to my attention.

Respectfully,

A handwritten signature in black ink, appearing to read "J. Griswold", is written over a horizontal line.

Jim Griswold  
*Senior Hydrologist*

cc: Geoff Leking, OCD District I Office, Hobbs  
Mike Griffin, Whole Earth Environmental  
Wayne Price

July 03, 2012

Jim Griswold-Hydrologist  
New Mexico Oil Conservation Division  
1220 S. St. Francis Dr.  
Santa Fe, NM 87505

Reference: Devon Energy Corporation  
Patsy Tank Battery  
Monument NM Area  
UL B Section 18-Ts 20s-Rg 37e

Subject: 2007,2008,2009 and 2010 Annual Reports for 1RP-433

Dear Mr. Griswold:

On behalf of Devon Energy and Whole-Earth Environmental, Wayne Price of Price LLC presented to you a comprehensive powerpoint providing a detail history of the site through the year 2010. During the meeting you indicated the 2007,2008,2009 and 2010 reports had not been entered into OCD's electronic filing system and you requested a copy directly from us for efficiency reasons.

Therefore, please find enclosed a "flash drive" that contains the 2007, 2008, 2009 and 2010 annual reports. Please note, the original signed copies were previously sent to OCD and unfortunately we did not retain a copy of the signed letters. We do have the letters as sent and these are included in the reports along with analytical results, certain drawings, graphs, EM surveys, etc.

Please note that all of the cover letters were basically the same script with some variations for attachments and comments. All the letters did contain a common misprint when it mentioned MW-5. This should have read MW-1. In addition, we cannot locate the cover letter for 2009, but we do have the laboratory analytical and results for the 2009 sampling event.

Please include the PowerPoint as part of the record as it documents the entire history and includes the analytical summary for all of the years 2002-2010.

Pursuant to our conversation, it appears Devon Energy has completed the required remediation and hereby request approval to plug and abandon the on-site monitor wells. If OCD concurs, please notify Mr. Chris Biagi (chris.biagi@dvn.com) with a copy to Whole-Earth Environmental (MikeG@vadose.us) and Price LLC.

Sincerely,



Wayne Price-Price LLC  
wayneprice77@earthlink.net



Devon Energy Corporation  
333 West Sheridan Avenue  
Oklahoma City, OK 73102-5010

405 228 8327 Phone  
www.devonenergy.com

June 28, 2012

Jim Griswold-Hydrologist  
New Mexico Oil Conservation Division  
1220 S. St. Francis Dr.  
Santa Fe, NM 87505

Reference: Devon Energy Corporation  
Patsy Tank Battery  
Monument NM Area  
UL B Section 18-Ts 20s-Rg 37e

Subject: Request for Final Closure of 1R-066, 1R-399, and 1R-433

Dear Mr. Griswold:

Devon Energy Corporation hereby request from OCD, approval to properly plug and abandon all on-site monitor wells at the historic Patsy Tank Battery site and obtain a final closure approval.

Devon Energy will be conducting a meeting with OCD on June 28, 2012 at 11am next Thursday morning to provide OCD the required information, so OCD may make a final determination.

This site has been remediated and groundwater abated for hydrocarbon contamination with greater than eight quarters of "ND" in all of the monitor wells. The presentation will show that the site is situated in one of the largest "Salt Impacted" groundwater contamination cases in the history of New Mexico.

The evidence presented will show emphatically that groundwater has been and is continually being impacted from up-gradient sources out of Devon's control. Also, the Patsy Site had virtually "no salt" that impacted the groundwater.

However, Devon did conduct source removal from the groundwater to aid in the regional problem. OCD has allowed other companies to close their sites once they removed a certain amount of salt.

Therefore, Devon Energy feels it has met the states' obligations and goals for this area, and hereby request final closure of the site.

Sincerely,



Mr. Chris Biagi  
EHS Remediation Advisor

cc: file  
Darren Smith, Devon EHS Manager