



New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

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

J. Daniel Sanchez
Acting Division Director
Oil Conservation Division



October 5, 2011

Mark Fairchild
COG Operating LLC
550 West Texas Street
Suite 100
Midland, TX 79701

Re: Administrative Order SWD-1195-A

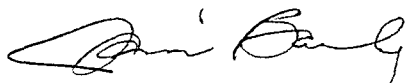
SRO 16 Federal-27 Well No. 1 (API 30-015-21398)
1980 FNL, 1980 FEL, Unit letter G, Sec 16, T26S, R28E, NMPM, Eddy County
Devonian formation disposal, Actual Open Hole Depths: 14543 to 15373 feet

You have submitted a request on behalf of COG Operating LLC, for an extension of the allowable 100 foot maximum packer setting depth for the reasons outlined in the attached correspondence.

The Division finds that granting this request to extend this injection permit is in the interest of conservation and will prevent waste and protect the environment.

The "within 100 feet" packer setting depth requirement of administrative permit SWD-1195-A is hereby revised to read: "within 191 feet". In any case, the disposal packer in this well shall be set no higher than the top of the Woodford Shale formation.

All other requirements of the above referenced injection permit remain in full force and effect.



JAMI BAILEY
Director

Cc: Oil Conservation Division – Artesia
File: SWD-1195-A



COG Operating LLC (MARBOB)

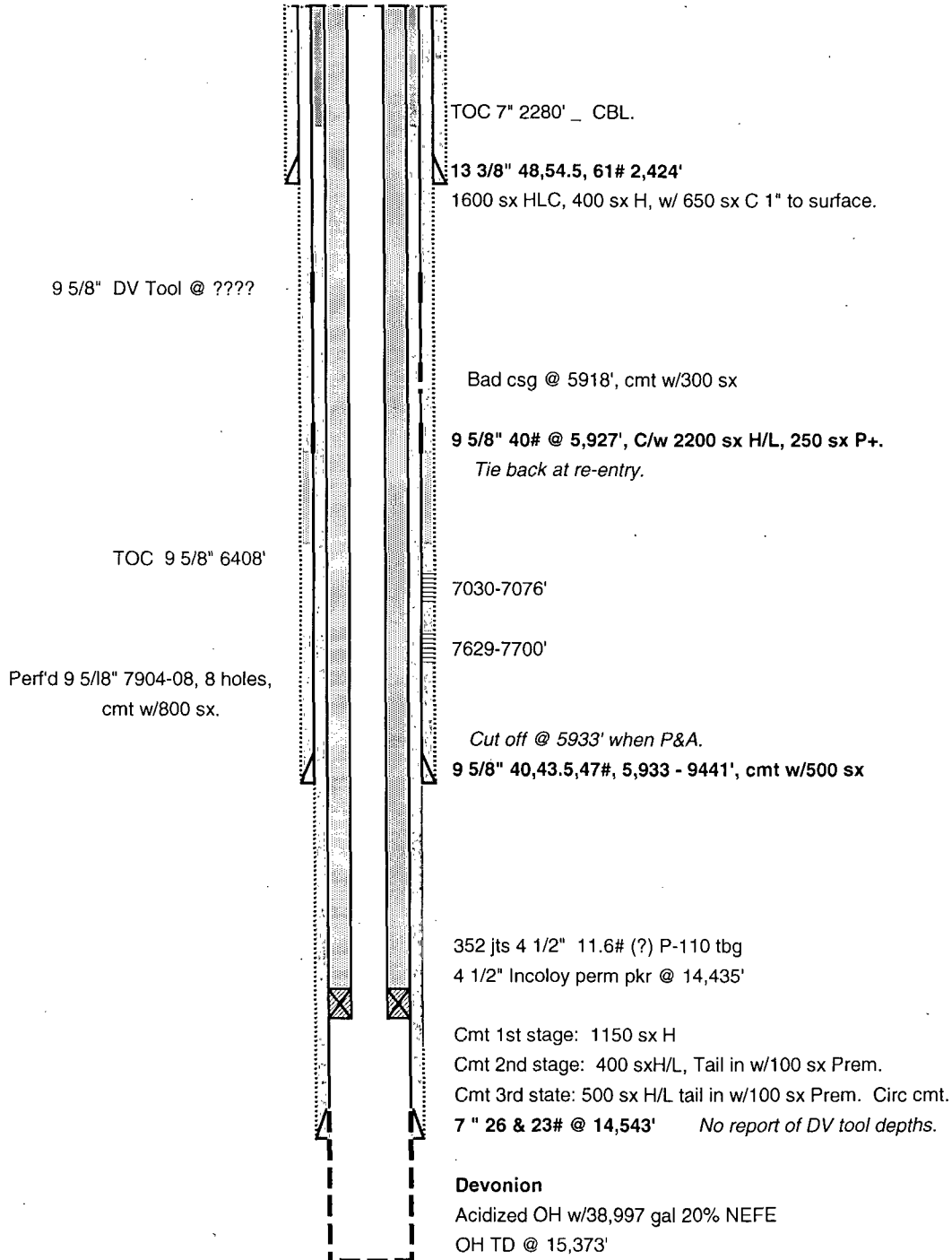
Lease & Well #
3001521398

SRO SWD #102

SPUD - 12/11/2009

Elevation - 3024 GR

Eddy Co., NM
G/ Sec 16 T26S/R28E 1980 FNL & 1980 FEL



Jones, William V., EMNRD

From: Jeff Gasch [jgasch@concho.com]
Sent: Tuesday, October 04, 2011 3:39 PM
To: Mark Fairchild; Jones, William V., EMNRD
Cc: Kautz, Paul, EMNRD; Gray, Darold, EMNRD
Subject: RE: SRO SWD 102.xls

Sounds good to me too.

Thanks,

Jeff Gasch
Operations Engineer
COG Operating LLC
432-818-2335 (office)
432-638-7433 (cell)

From: Mark Fairchild
Sent: Tuesday, October 04, 2011 4:38 PM
To: Jones, William V., EMNRD; Jeff Gasch
Cc: Kautz, Paul, EMNRD; Gray, Darold, EMNRD
Subject: RE: SRO SWD 102.xls

Will, I am saying yes.

M.A. Fairchild

Please note, my new email is MFairchild@concho.com

COG OPERATING LLC
Office: 432-686-3021
Cell: 432-230-7170



CONFIDENTIALITY NOTICE: The information in this email may be confidential and/or privileged. If you are not the intended recipient or an authorized representative of the intended recipient, you are hereby notified that any review, dissemination or copying of this email and its attachments, if any, or the information contained herein, is prohibited. If you have received this email in error, please immediately notify the sender by return email and delete this email from your system. Thank you.

From: Jones, William V., EMNRD [<mailto:William.V.Jones@state.nm.us>]
Sent: Tuesday, October 04, 2011 4:08 PM
To: Jeff Gasch; Mark Fairchild
Cc: Kautz, Paul, EMNRD; Gray, Darold, EMNRD
Subject: RE: SRO SWD 102.xls

Mark and Jeff,

Are you OK with new packer setting limit below the top of the Woodford (14352 feet)?

Will Jones
New Mexico
Oil Conservation Division
[Images](#) [Contacts](#)

From: Jeff Gasch [<mailto:jgasch@concho.com>]
Sent: Tuesday, October 04, 2011 1:53 PM
To: Jones, William V., EMNRD; Mark Fairchild
Cc: Kautz, Paul, EMNRD; Gray, Darold, EMNRD
Subject: RE: SRO SWD 102.xls

Will,

The top of the Woodford is at 14,352'. I have attached a .tif version of the original neutron/density log on the well. It was recorded down to 14,554', just below the base of the Woodford Shale. I'll have someone check the wellfile in Artesia to see if we have anything newer or better quality.

Thanks,

Jeff Gasch
Operations Engineer
COG Operating LLC
432-818-2335 (office)
432-638-7433 (cell)

From: Jones, William V., EMNRD [<mailto:William.V.Jones@state.nm.us>]
Sent: Monday, October 03, 2011 4:09 PM
To: Mark Fairchild; Jeff Gasch
Cc: Kautz, Paul, EMNRD; Gray, Darold, EMNRD
Subject: RE: SRO SWD 102.xls

Hello Mark and Jeff,

Our logs on this well are terrible – surely Marbob at least pulled another Gamma Ray when re-entering and deepening this well.

Would you check your available elogs and compare to the Division web site and send a copy of any log that does not appear on that site to Paul Kautz in Hobbs for scanning?

I also meant to ask – where is the top of the Woodford Shale?

I have a letter drafted on this – but you also did not send me an address of COG. Please send?

Regards,

Will Jones
New Mexico
Oil Conservation Division
[Images](#) [Contacts](#)

From: Mark Fairchild [<mailto:MFairchild@concho.com>]
Sent: Monday, October 03, 2011 1:17 PM
To: Jones, William V., EMNRD

Cc: Jeff Gasch
Subject: RE: SRO SWD 102.xls

Our geologist says that the T/Mississippian 13,668' and the Devonian is 14,494'.

M.A. Fairchild

Please note, my new email is MFairchild@concho.com

COG OPERATING LLC
Office: 432-686-3021
Cell: 432-230-7170



CONFIDENTIALITY NOTICE: The information in this email may be confidential and/or privileged. If you are not the intended recipient or an authorized representative of the intended recipient, you are hereby notified that any review, dissemination or copying of this email and its attachments, if any, or the information contained herein, is prohibited. If you have received this email in error, please immediately notify the sender by return email and delete this email from your system. Thank you.

From: Jones, William V., EMNRD [<mailto:William.V.Jones@state.nm.us>]
Sent: Friday, September 30, 2011 1:26 PM
To: Mark Fairchild
Cc: Warnell, Terry G, EMNRD
Subject: RE: SRO SWD 102.xls

Mark,
Got it,
Where is the top of the Devonian and top of the Mississippian?

[Will Jones](#)
New Mexico
Oil Conservation Division
[Images](#) [Contacts](#)

From: Mark Fairchild [<mailto:MFairchild@concho.com>]
Sent: Friday, September 30, 2011 10:07 AM
To: Jones, William V., EMNRD
Subject: SRO SWD 102.xls

Will, this is the information that you requested. The packer is at 14,435'. We would propose to set another permanent packer within 100' of stuck one, or +/- 14,335 or deeper, but no closer than 25' of the old packer.