



MCBU
P. O. Box 51810
Midland, TX 79710-1810

RECEIVED OCD

2012 JUL 19 P 12:44

July 16, 2012

Mr. Will Jones
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: Amendment of Administrative Order SWD-1316

Will:

As per the discussions related to the proposed amendment of the above Order, ConocoPhillips Company respectfully request the following:

1. Amend the language in the Order to reference the Cherry Canyon member of the Delaware Mountain Group instead of the current language indicating the "Delaware Mountain Group (Bell Canyon member).
2. Amend the proposed perforations for disposal from 5745-5905 to include 5686 to 5932.

As part of this request, please find attached portion of the email discussion with the OCD District Geologist, COP presentation, and a current and proposed wellbore diagram.

Should you have any questions, or need additional information, please do not hesitate to contact me at 432-688-6943.

Sincerely,

Donna Williams
Sr. Regulatory Advisor

PLANNED



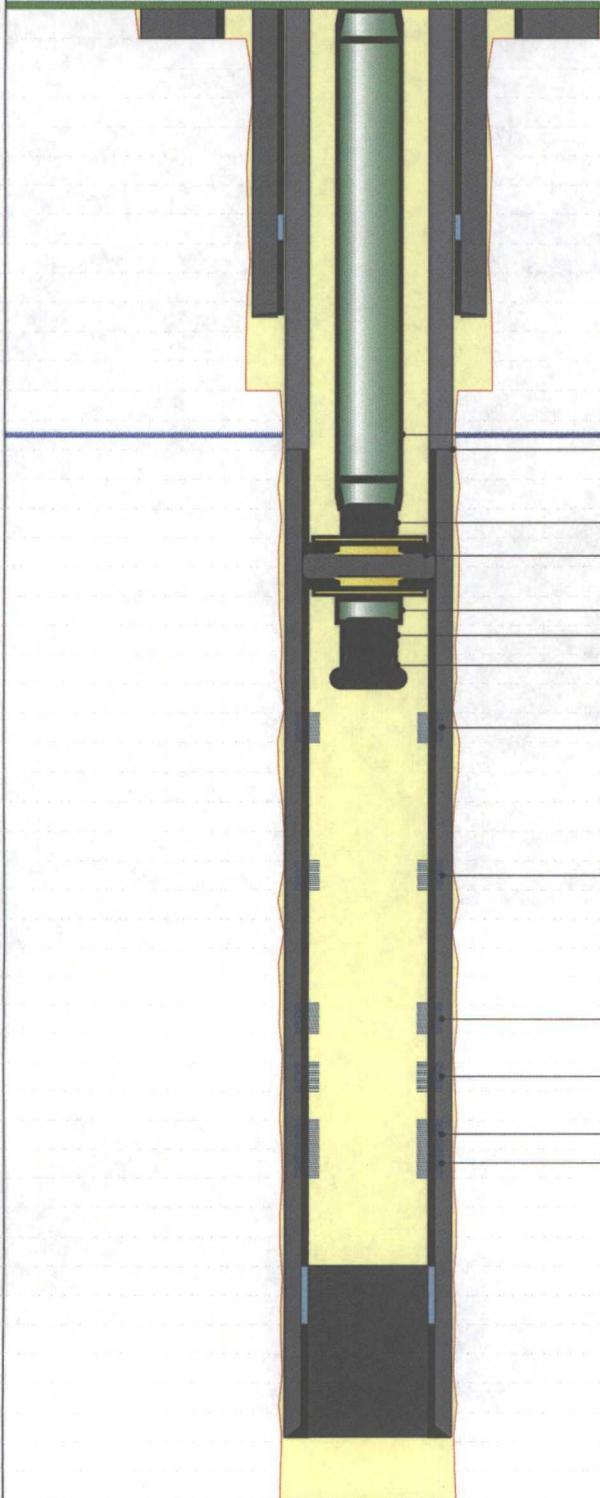
Schematic - ~~Current~~ BUCK FEDERAL 17 1SWD

District PERMIAN	Field Name RED HILLS WEST	API / UWI 3002540482	County LEA	State/Province NEW MEXICO
Original Spud Date 4/7/2012	Surface Legal Location Section 17, Township 26S, Range 32E	East/West Distance (ft) 1,940.00	East/West Reference FWL	North/South Distance (ft) 2,284.00
		North/South Reference FNL		

Well Config: VERTICAL - Original Hole, 7/1/2012
Schematic - Proposed

ftKB (MD)

- 0
- 13
- 96
- 167
- 240
- 382
- 972
- 974
- 1,050
- 1,052
- 1,091
- 1,094
- 1,094
- 1,104
- 1,105
- 1,115
- 4,665
- 5,365
- 5,658
- 5,661
- 5,668
- 5,670
- 5,678
- 5,679
- 5,680
- 5,686
- 5,700
- 5,716
- 5,718
- 5,727
- 5,733
- 5,742
- 5,758
- 5,759
- 5,760
- 5,762
- 5,794
- 5,816
- 5,859
- 5,890
- 5,905
- 5,932
- 6,167
- 6,215
- 6,221
- 6,221
- 6,223
- 6,231
- 6,241
- 6,267
- 6,268
- 6,277
- 6,278



*Wellbore as
it should BE PERMITTED*

2-1, Tubing- Injection (IPC), 3 1/2, 2,992, 13, 5,645.6
Production Casing Cement, 13-4,665

2-2, On/Off tool w/ "F" nipple, 3, 2,750, 5,659, 2.0

2-3, Packer (Mesquite AS-1X, 6, 2,992, 5,661, 9.4

2-4, Tubing- Injection (IPC), 3 1/2, 2,992, 5,670, 8.0

2-5, "R" nipple, 3, 2,750, 5,678, 1.0

2-6, Re-entry Guide w/ pump out plug, 3, 2,992, 5,679, 1.0

Des:Perforated, Top (MD):5,686, Btm (MD):5,700

Des:Perforated, Top (MD):5,733, Btm (MD):5,742

Des:Perforated, Top (MD):5,762, Btm (MD):5,794

Des:Perforated, Top (MD):5,816, Btm (MD):5,859

Des:Perforated, Top (MD):5,890, Btm (MD):5,905

Des:Perforated, Top (MD):5,905, Btm (MD):5,932

Des:PBSD, Depth (MD):6,167, Date:4/23/2012

API#	WELL_NAME	WELL #	Status	CURR_OPERA	Type	SPUD	Depth	PLUGBACK	DIREC	LEASE_NAME	Location	Footage
300252771600	RUSSELL '17' FEDERAL	12	✓ Active	SAHARA OPERATING COMPANY	OIL	2/25/1982	4502	4430	VERTICAL	RUSSELL '17' FEDERAL	17 26S 32E	1980 FSL 1980 FWL
300252793700	RUSSELL '17' FEDERAL	13	✓ PA	SAHARA OPERATING COMPANY	OIL	10/20/1982	4550	4500	VERTICAL	RUSSELL '17' FEDERAL	17 26S 32E	1980 FSL 660 FWL
300252737500	RUSSELL '17' FEDERAL	10	✓ Active	SAHARA OPERATING COMPANY	OIL	9/15/1981	4500	4460	VERTICAL	RUSSELL '17' FEDERAL	17 26S 32E	660 FSL 1720 FWL
300252793000	THOMPSON '18' FEDERAL	5	✓ Active	SAHARA OPERATING COMPANY	OIL	11/5/1982	4800	4568	VERTICAL	THOMPSON '18' FEDERAL	18 26S 32E	1980 FNL 660 FEL
300252890900	RUSSELL FEDERAL	11	✓ Active	SAHARA OPERATING COMPANY	OIL	9/17/1984	4363	0	VERTICAL	RUSSELL FEDERAL	17 26S 32E	1980 FSL 2310 FEL

S. H. [Signature]

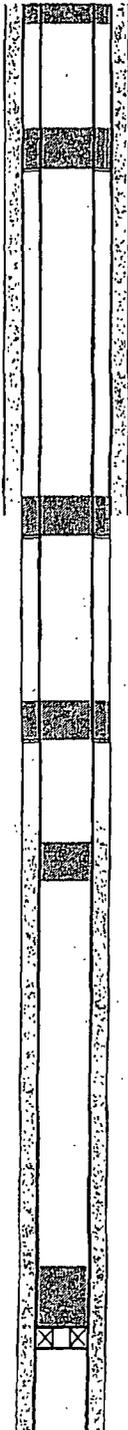
PLUGGED WELLBORE SKETCH
Sahara Operating Company

Date February 8, 2008

RKB @ _____
DF @ _____
GL @ _____

Subarea _____
Lease & Well No _____
Legal Description _____
County _____
Field _____
Date Spudded _____
API Number _____
Status _____

Russell Federal "17" #13		
1980 FSL 660 FVM S17, T26S, R32E		
Lea	State	New Mexico
Rig Released		
30-025-27937		
Plugged 02/08/08	State Lease	LC-068281B



15 sx C cmt 63' to surface

Perf/sqz'd 40 sx C cmt 400 - 293' Tagged

8-5/8" csg @ 1,110' cmt'd to surface

Perf/sqz'd 40 sx C cmt 1,170 - 1,045' Tagged

Perf/sqz'd 40 sx C cmt 1,700 - 1,575' Tagged

25 sx C cmt 2,511 - 2,258'

25 sx C cmt 4,327 - 4,127' Tagged
Circulated 85 bbis plugging mud
RBP @ 4,330', set in 1985

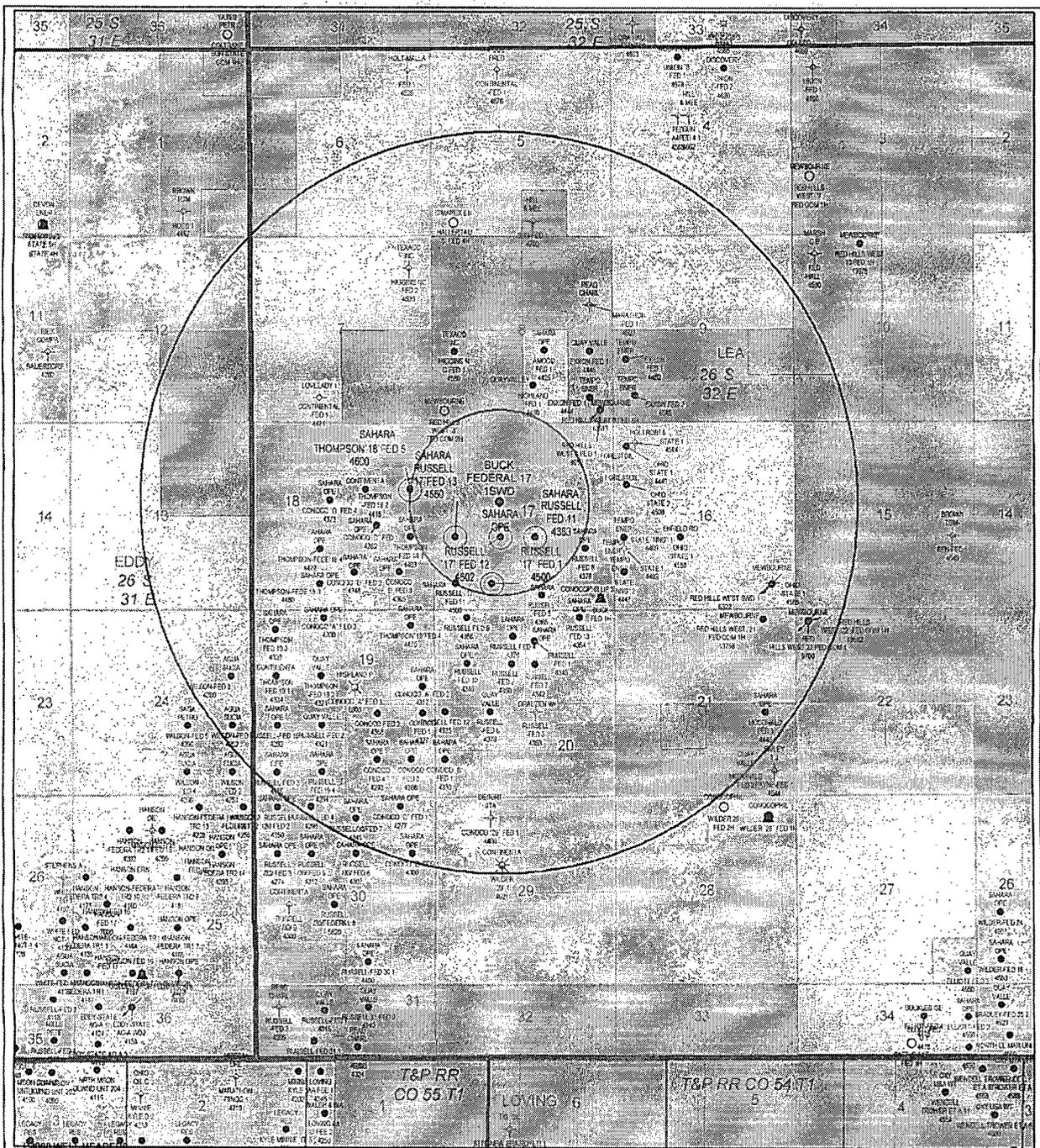
5-1/2" csg @ 4,538', TOC @ 2,000' (T S)

PBTD @ _____
TD @ _____

 **TRIPLE N**
SERVICES INC.
WELL AND TIE

PLUGS SET 02/07 - 02/08/08

- 1) circulated 85 bbis plugging mud
- 2) 25 sx C cmt 4,327 - 4,127' Tagged
- 3) 25 sx C cmt 2,511 - 2,258' Balanced
- 4) Perf/sqz'd 40 sx C cmt 1,700 - 1,575' Tagged
- 5) Perf/sqz'd 40 sx C cmt 1,170 - 1,045' Tagged
- 6) Perf/sqz'd 40 sx C cmt 400 - 293' Tagged
- 7) 15 sx C cmt 63 - surface



- STATUS**
- OIL
 - ⊙ GAS
 - ⊙ OIL & GAS
 - ⊙ DA-BAND
 - ⊙ START
 - LOC
 - ⊙ INJ & SERVICE
 - ⊙ JA
 - ⊙ SUS
 - (with star) 1/2 mile Area of Review
 - (with star) PROPOSED BUCK FEDERAL 17 #1 SWD
 - (with star) ONE-HALF MILE RADIUS CIRCLE
 - (with star) TWO MILE RADIUS CIRCLE
 - (with star) 300' RPT. T&P RR CO 55 T1



0 2,500 5,000
Feet

ConocoPhillips

Permian Basin

New Mexico

COP Buck Federal 17 #1 SWD
Application
Lea county

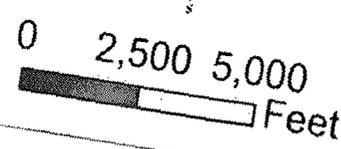
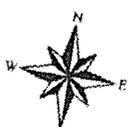
Author:	Date: 12/14/2011
Compiled by: lcdavis	Scale:
Project File:	



*OT&E
Proposed*

- 2000 WELL HEADERS**
- ★ OIL
 - ☆ GAS
 - ⊕ ENL & GAS
 - ⊕ OIL & GAS
 - ⊕ START
 - ⊕ LOC
 - ⊕ U & SERVICE
 - ⊕ JA
 - ⊕ SUS
 - ⊕ (Note: each Area of Review)

- ONE-HALF MILE RADIUS CIRCLE
- TWO MILE RADIUS CIRCLE
- COFC Lease Tract - 100%
- Minnow Lease Tract - 100%



NAD27
New Mexico East (3001)

ConocoPhillips
Permian Basin

New Mexico
COP Buck Federal 17 #1 SWD
Application
Lea county

Author:		Date:	12/16/2011
Compiled by:	JDavis	Drawn:	
Project File:			

Williams, Donna J

From: Williams, Donna J
Sent: Wednesday, June 27, 2012 5:45 AM
To: 'Kautz, Paul, EMNRD'; Jones, William V., EMNRD
Subject: RE: ConocoPhillips, Buck Federal 17 1SWD

Paul, thank you for discussing this matter with Harvey. Will, what is the next step if any, to amend the actual disposal formation name to Cherry Canyon as well as amend the permit to include the additional perforations. Please let me know. Thanks.

From: Kautz, Paul, EMNRD [mailto:paul.kautz@state.nm.us]
Sent: Tuesday, June 26, 2012 3:03 PM
To: Jones, William V., EMNRD
Cc: Williams, Donna J
Subject: [EXTERNAL]FW: ConocoPhillips, Buck Federal 17 1SWD

Hi Will

Harvey Vick a geologist with ConocoPhillips sent me the attached power point cross section. I agree Conoco's pick for the Cherry Canyon it's the equivalent to the same pick I use for the Cherry Canyon formation. We have not received the logs for this SWD well and from the cross-section that the original zone and the proposed additional perforations are Cherry Canyon. I told Harvey that I would leave it to you what if anything else you may want ConocoPhillips to submit in order to correct their original SWD permit.

Paul

From: Vick, Harvey [mailto:Harvey.O.Vick@conocophillips.com]
Sent: Tuesday, June 26, 2012 7:55 AM
To: Kautz, Paul, EMNRD
Subject: ConocoPhillips, Buck Federal 17 1SWD

Hello Mr. Kautz:

Attached are a few Power Point slides addressing the ConocoPhillips, Buck Federal 17 1SWD well. As we agreed, I'll call you at 1:30pm your time today to discuss.

Harvey O. Vick III, P.G.

Staff Geologist

ConocoPhillips Company
580 Westlake II, Room WL2 13010
Houston, TX 77252-2197
832-486-2797 office
281-728-8566 cell
832-330-0392 BlackBerry
281-251-1910 home
harvey.o.vick@conocophillips.com

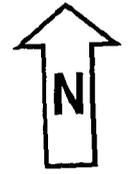
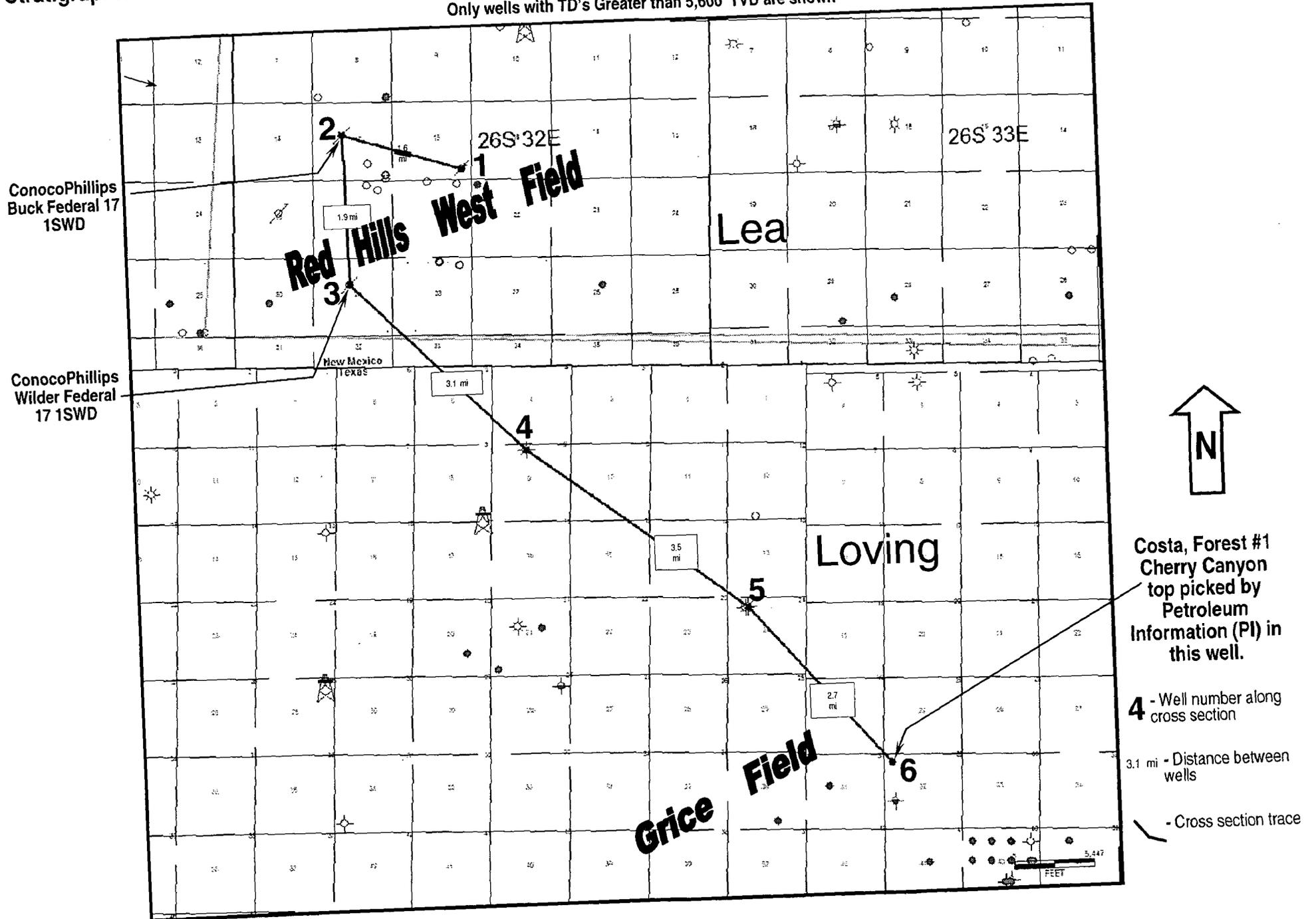
6/27/2012

Responses to Mr. Paul Kautz's Questions

- The top of the Bell Canyon is recognized as the top of the Delaware Mtn. Group.
- The Cherry Canyon top is correlated across this cross section as identified by Petroleum Information (PI) in the Costa, Forest #1 well (well #6 on the cross section).
- ConocoPhillips now recognizes that most operators in the area of the Buck Federal 17 1 SWD well identify the proposed injection zones for this well as the Cherry Canyon Sandstone rather than the Bell Canyon Sandstone. Therefore, ConocoPhillips is designating the proposed injection zones as Cherry Canyon Sandstone.
- The Cherry Canyon proposed injection zones in the Buck Federal 17 1SWD came in structurally as follows as compared to the initial formation top prognosis:
 - Cherry Canyon SWDZ 1 Top _ 76' above prognosis.
 - Cherry Canyon SWDZ 2 Top _ 53' above prognosis.
 - Cherry Canyon SWDZ 3 Top _ 23' above prognosis.
 - Cherry Canyon SWDZ 4 Top _ 40' above prognosis.
- No shows of oil or gas were noted during the drilling of this well.
- ConocoPhillips was calling these proposed injection zones for this well Bell Canyon at the time the formation top prognosis was initially submitted.

Stratigraphic and Structural Cross Section Trace from Red Hills West Field in S.W. NM to the Grice Field in Central Loving Co TX.

Only wells with TD's Greater than 5,600' TVD are shown



Costa, Forest #1
Cherry Canyon
top picked by
Petroleum
Information (PI) in
this well.

4 - Well number along
cross section

3.1 mi - Distance between
wells

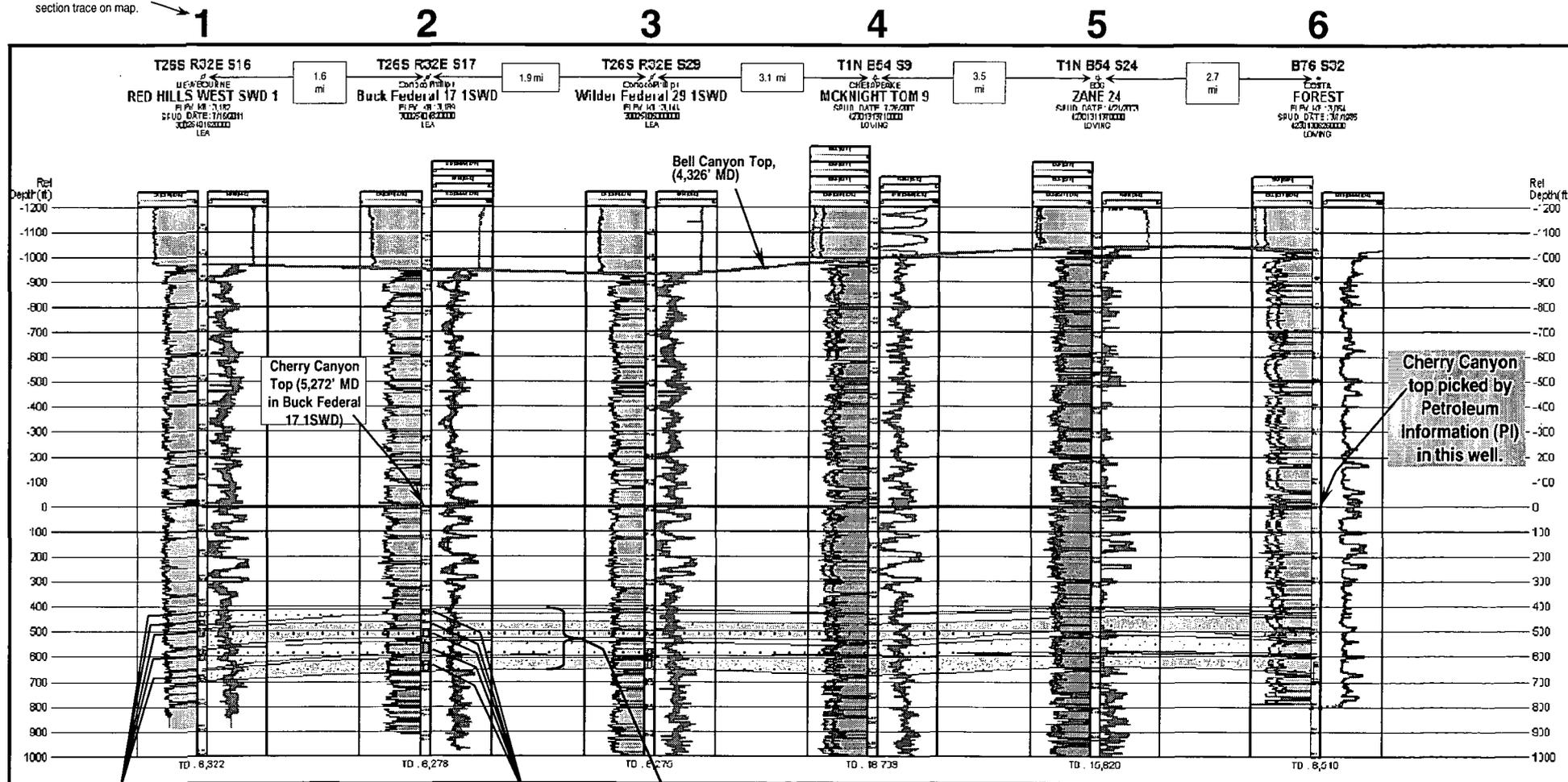
- Cross section trace

Stratigraphic Cross Section Flattened on the Cherry Canyon Top

Showing Preferred Perforations in the Buck Federal 17 1SWD Well

Cross Section from Red Hills West Field in S.W. NM to Grice Field in Central Loving Co TX.

Well number along cross section trace on map.



Existing Injection Perforations

Preferred Cherry Canyon perforations expanded from those in the Buck Federal 17 1SWD permit.
 5,686' to 5,700', 5,733' to 5,742',
 5,762' to 5,794', 5,816' to 5,859' and
 5,890' to 5,932'.

Cherry Canyon Sandstone Injection Intervals

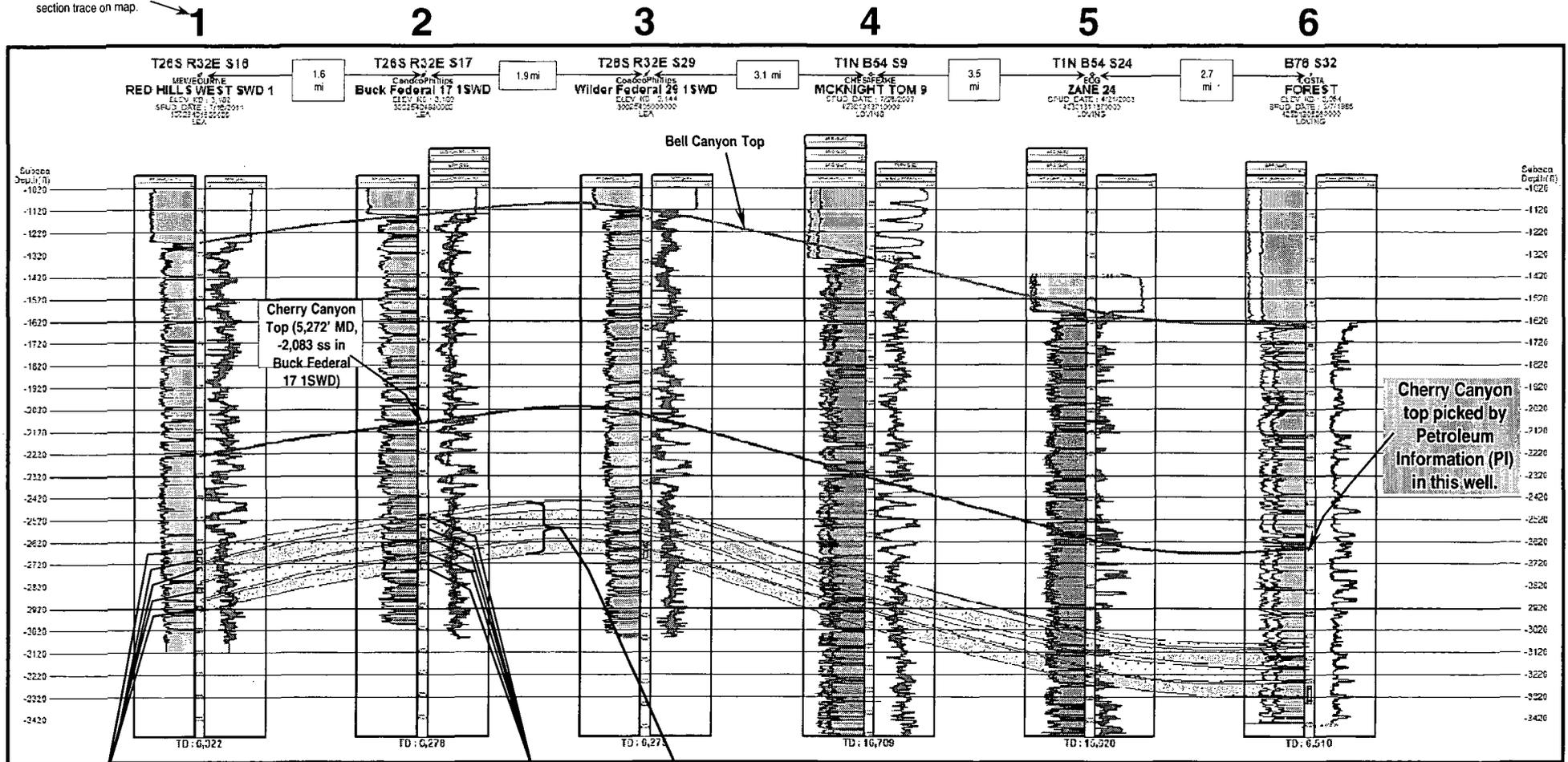
Notes:

- The top of the Bell Canyon is recognized as the top of the Delaware Mtn Group.
- ConocoPhillips now recognizes that most operators in the area of the Buck Federal 17 1 SWD well identify the proposed injection zones for this well as the Cherry Canyon Sandstone rather than the Bell Canyon Sandstone. Therefore, ConocoPhillips is designating the proposed injection zones as Cherry Canyon Sandstone.
- The Cherry Canyon top is correlated across this cross section as identified by Petroleum Information (PI) in the Costa, Forest #1 well (well #6 on the cross section).
- ConocoPhillips would like to increase the perforation interval from 5,745' to 5,905' (as stated in the permit) to an interval which would include 5,686' to 5,932'.

Structural Cross Section Showing Bell Canyon Top, Cherry Canyon Top and Cherry Canyon Sandstone Injection Intervals With Preferred Perforations in the Buck Federal 17 1SWD Well

Cross Section from Red Hills West Field in S.W. NM to Grice Field in Central Loving Co TX.

Well number along cross section trace on map.



Existing Injection Perforations

Preferred Cherry Canyon perforations expanded from those in the Buck Federal 17 1SWD permit.
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Cherry Canyon Sandstone Injection Intervals

Notes:

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- ConocoPhillips would like to increase the perforation interval from 5,745' to 5,905' (as stated in the permit) to an interval which would include 5,686' to 5,932'.

Jones, William V., EMNRD

From: Williams, Donna J [Donna.J.Williams@conocophillips.com]
Sent: Tuesday, July 31, 2012 2:27 PM
To: Jones, William V., EMNRD
Subject: RE: Request to Amend SWD Order 1316- Buck 17 Federal SWD # 1

it was mailed out on Monday 7/30. They are here in Midland so should receive the green card by Friday..

From: Jones, William V., EMNRD [<mailto:William.V.Jones@state.nm.us>]
Sent: Tuesday, July 31, 2012 3:26 PM
To: Williams, Donna J
Subject: [EXTERNAL]RE: Request to Amend SWD Order 1316- Buck 17 Federal SWD # 1

Donna – just send me the proof of mailing.
What day was it mailed?

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

From: Williams, Donna J [<mailto:Donna.J.Williams@conocophillips.com>]
Sent: Tuesday, July 31, 2012 2:23 PM
To: Jones, William V., EMNRD; Maiorino, Brian D
Cc: Ezeanyim, Richard, EMNRD
Subject: RE: Request to Amend SWD Order 1316- Buck 17 Federal SWD # 1

no i haven't. I will as soon as I receive it back from them... Thanks.

From: Jones, William V., EMNRD [<mailto:William.V.Jones@state.nm.us>]
Sent: Tuesday, July 31, 2012 3:20 PM
To: Williams, Donna J; Maiorino, Brian D
Cc: Ezeanyim, Richard, EMNRD
Subject: [EXTERNAL]RE: Request to Amend SWD Order 1316- Buck 17 Federal SWD # 1

Hello Donna and Brian,
Looks like all we are missing is item "a." below.
If you have already sent this proof of notice or waiver from Sahara, please forgive me – I can't find it.

Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Monday, July 16, 2012 9:16 AM
To: 'Williams, Donna J'
Cc: 'Maiorino, Brian D'; Ezeanyim, Richard, EMNRD
Subject: RE: Request to Amend SWD Order 1316- Buck 17 Federal SWD # 1

Hi Donna,
Hope your week is starting well.

For this amendment,

- a. Send a notice (copy of this proposed change) to Sahara Operating Company and copy of the mailer to me. If they will sign a waiver, you could send that.
- b. The original application has a one page "Geologic Summary". Please ask Harvey Vick to look it over, revise it with the new information and send me a copy.
- c. The email sent to me from Brian on Febr 6th has listed tops of the Delaware members which may now be considered incorrect – how should that information be corrected?

Thanks for this,

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

From: Williams, Donna J [<mailto:Donna.J.Williams@conocophillips.com>]
Sent: Sunday, July 15, 2012 11:05 AM
To: Jones, William V., EMNRD; Kautz, Paul, EMNRD
Subject: FW: Request to Amend SWD Order 1316- Buck 17 Federal SWD # 1

Please find attached a copy of the request that is being sent to your office related to the amendment of the existing Order. If you have any questions, please let me know. Thanks.

ns, Donna J
, July 15, 2012 12:03 PM
, Donna J

Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Monday, June 11, 2012 2:27 PM
To: 'Williams, Donna J'
Cc: Kautz, Paul, EMNRD
Subject: RE: Administrative Order SWD 1316 30-025-40482 F/17/26S/32E Lea County

Hi Donna,
The issue of whether this is the Bell Canyon or Cherry Canyon at these depths....
I have an email from your geologist earlier that these depths are definitely contained within the Bell Canyon and Paul Kautz (the OCD Hobbs Geologist) has put this into the SWD; Bell Canyon Pool.
Would you ask your geologist to work with Paul Kautz on that? And again **send actual tops for the Bell Canyon and Cherry Canyon as they are approved by Paul.**

If the tops actually came in higher than expected, **did this result in any shows of oil or gas?**

Also, send another "Post Conversion" wellbore diagram showing the well as it exists with the final perf depths.

Otherwise, it appears this modification of your permit SWD-1316 should be approved.

Thank You,

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

From: Williams, Donna J [<mailto:Donna.J.Williams@conocophillips.com>]
Sent: Thursday, June 07, 2012 9:05 AM
To: Jones, William V., EMNRD
Subject: RE: Administrative Order SWD 1316

Thank you very much.

From: Jones, William V., EMNRD [<mailto:William.V.Jones@state.nm.us>]
Sent: Thursday, June 07, 2012 9:01 AM
To: Williams, Donna J
Subject: [EXTERNAL]RE: Administrative Order SWD 1316

Jones, William V., EMNRD

From: Williams, Donna J [Donna.J.Williams@conocophillips.com]
Sent: Thursday, June 07, 2012 9:05 AM
To: Jones, William V., EMNRD
Subject: RE: Administrative Order SWD 1316

30-025-40482 F/17/26S/32E Lea
2284 FNL/1950 FwL

Thank you very much.

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]
Sent: Thursday, June 07, 2012 9:01 AM
To: Williams, Donna J
Subject: [EXTERNAL]RE: Administrative Order SWD 1316

need W.B.P.
Bell/Cherry Tops
No AOK wells @ DEPTH
SWD; Bell C. approval BY Paul

Hi Donna,
Will let you know soon.

Will

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

From: Williams, Donna J [mailto:Donna.J.Williams@conocophillips.com]
Sent: Thursday, June 07, 2012 6:28 AM
To: Williams, Donna J; Kautz, Paul, EMNRD; Jones, William V., EMNRD
Subject: RE: Administrative Order SWD 1316

Good morning. Have you'll had a chance to review this request below.. Please advise and thanks.

ns, Donna J
ay, May 31, 2012 8:34 AM
aul, EMNRD; 'william.v.jones@state.nm.us'
. Donna J
W: Administrative Order SWD 1316

SWD

Good morning Paul and Will. In regards to the above order for the Buck 17 Federal # 1 (30-025-40482), I am inquiring as to how to amend this order as it pertains to what we call the disposal member. The permit indicates it to be the Delaware Mountain Group (Bell Canyon member); however, in staying consistent with other disposal wells in this area, the geologist is indicating the true disposal member is the Cherry Canyon. As this permit was done prior to the well being drilled, we are also asking how to amend the perforations stated in the permit. Originally it was 5745 to 5905. We now would like to state our disposal interval to be 5686 to 5932.

Hi Donna,
Will let you know soon.

Will

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

From: Williams, Donna J [<mailto:Donna.J.Williams@conocophillips.com>]
Sent: Thursday, June 07, 2012 6:28 AM
To: Williams, Donna J; Kautz, Paul, EMNRD; Jones, William V., EMNRD
Subject: RE: Administrative Order SWD 1316

Good morning. Have you'll had a chance to review this request below.. Please advise and thanks.

ns, Donna J
ay, May 31, 2012 8:34 AM
aul, EMNRD; 'william.v.jones@state.nm.us'
. Donna J
W: Administrative Order SWD 1316

Good morning Paul and Will. In regards to the above order for the Buck 17 Federal # 1 (30-025-40482), I am inquiring as to how to amend this order as it pertains to what we call the disposal member. The permit indicates it to be the Delaware Mountain Group (Bell Canyon member); however, in staying consistent with other disposal wells in this area, the geologist is indicating the true disposal member is the Cherry Canyon. As this permit was done prior to the well being drilled, we are also asking how to amend the perforations stated in the permit. Originally it was 5745 to 5905. We now would like to state our disposal interval to be 5686 to 5932. I have attached the formation tops for this well for your review. The well is drilled but has not been completed as of this date. Please let me know what measure need to be done to accommodate the statements above. Thanks and have a great day.

ns, Donna J
ay, May 31, 2012 8:21 AM
, Donna J

<< File: 2012053108203511.pdf >>

Proof of Notice

I hereby certify that a complete copy of this application was sent by certified mail to the listed persons below on December 19, 2011

Offset Operator

Sahara Operating Company
306 W. Wall Street #1025
Midland, TX 79701-5101

Surface Owner

Bureau of Land Management
620 E. Greene St.
Carlsbad, NM 88220

B. Maiorino 12/19/11
Brian Maiorino
ConocoPhillips Company
Regulatory Specialist

7010 3090 0001 8447 4451

U.S. Postal Service	
CERTIFIED MAIL RECEIPT	
<i>(Domestic Mail Only; No Insurance Coverage Provided)</i>	
For delivery information, visit our website at www.usps.com	
OFFICIAL USE	
Postage \$	Postmark Here
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total	
Sent	Sahara Operating Company
Street or PO	306 W. Wall Street #1025
City, S	Midland, TX. 79701-5101
PS Form 3800, August 2006 See Reverse for Instructions	

7010 3090 0001 8447 4468

U.S. Postal Service	
CERTIFIED MAIL RECEIPT	
<i>(Domestic Mail Only; No Insurance Coverage Provided)</i>	
For delivery information, visit our website at www.usps.com	
OFFICIAL USE	
Postage \$	Postmark Here
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total	
Sent	Bureau of Land Management
Street or PO	620 E. Greene St.
City,	Carlsbad, NM 88220
PS Form 3800, August 2006 See Reverse for Instructions	

Maiorino, Brian D

From: bookkeeping [bookkeeping@hobbsnews.com]
Sent: Monday, December 19, 2011 1:41 PM
To: Maiorino, Brian D
Subject: [EXTERNAL]Re: Legal notice and Affidavit

Your legal ad has been placed to publish on the 22nd of December.

Thank you,

Yesenia

On Dec 16, 2011, at 9:05 AM, classifieds wrote:

Begin forwarded message:

From: "Maiorino, Brian D" <Brian.D.Maiorino@conocophillips.com>
Date: December 16, 2011 9:56:45 AM MST
To: "classifieds@hobbsnews.com" <classifieds@hobbsnews.com>
Subject: Legal notice and Affidavit

ConocoPhillips Company PO Box 51810, Midland, TX 79710-1810, Contact: Brian Maiorino (432) 688-6913, is seeking administrative approval from the New Mexico Oil Conservation Division to dispose of salt water into one well on the Buck lease, in the Bell Canyon pool.

Buck Federal 17 #1SWD, 2284 FNL 1950 FWL Sec 17 Township 26S Range 32E, Lea County, NM. Injection Interval 5745'-5905'

The maximum injection rate will be 10,000 barrels of water per day and the maximum injection pressure will be 1,149 psi. Interested parties must file objections or request for hearing with the New Mexico Oil conservation Division, 1220 South Saint Francis Drive, Santa Fe NM 87504 within 15 days of this notice.

Brian D Maiorino
Regulatory Specialist
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Jenna Arther
Classifieds

12/19/2011



MCBU
P. O. Box 51810
Midland, TX 79710-1810

July 30, 2012

Mr. Will Jones
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: Amendment of Administrative Order SWD-1316

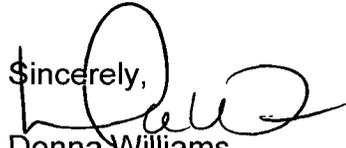
Will:

As per our correspondence related to the amendment of the above Order, ConocoPhillips Company respectfully submits the following:

1. Notice has been sent to Sahara Operating Company this date related to the proposed amendment of the above Order. Appropriate documentation will be sent to you upon receipt.
2. The revised Geologic Summary
3. The revised formation tops from the drilling of the well.

Should you have any questions, or need additional information, please do not hesitate to contact me at 432-688-6943.

Sincerely,


Donna Williams
Sr. Regulatory Advisor

RECEIVED OCS
2012 AUG - 3 P 12: 78

Red Hills West SWD Well

ConocoPhillips, Buck Federal 17 1SWD

Sect 17-T26S-R32E

2284' FNL & 1950'FWL

Lea Co. NM

Geologic Summary:

The subject SWD well (ConocoPhillips, Buck Federal 17 1SWD) is located in section 17, T26S-R32E in Lea County, New Mexico. This geologic evaluation includes all of T26S-R32E over at least a 1,865' interval from the top of the Delaware Bell Canyon to the top portion of the Lower Cherry Canyon. The Upper Delaware Bell Canyon Sandstone members known as the Ramsey and Olds' Sandstones, are the only zones that have been found to be hydrocarbon productive in or in the immediate area around this township. These Sandstones occur within the top 200' of the Delaware Bell Canyon Formation at a depth from 4,350' to 4,495' in the Buck Federal 17 1SWD.

The interval indentified for salt water disposal in the Buck Federal 17 1SWD are Cherry Canyon Sandstones which occur between the depths of 5,684' to 5,932'. This interval is composed of non-hydrocarbon bearing sandstones that have good porosity and permeability interbedded with numerous thin shales and carbonates and that are very continuous across the area. This interval had no mudlog shows of significance when penetrated in the ConocoPhillips, Buck Federal 17 1H which is located 4,025' southeast of the Buck Federal 17 1SWD. Water saturation calculations from open hole logs in the Buck Federal 17 1SWD well indicate that the interval is wet and non-hydrocarbon productive.

The interval thickness between the base of the Ramsey and Olds Sandstone and the top of the proposed water disposal zone is 1,184' in the Buck Federal 17 1SWD. This interval contains approximately nine relatively thin shales that are continuous across the area. The gross thickness along with interbedded shales throughout the area should act as a low permeability barrier between the disposal interval and the Upper Delaware Bell Canyon Sandstones.

For the reasons mentioned above, this interval has no potential for oil or gas production from the Buck Federal 17 1SWD and will be a good interval for salt water disposal. A review of geologic and engineering data in the immediate area of this SWD well, finds that there is no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

Harvey O. Vick III
Geologist, ConocoPhillips
July 18, 2012

Buck Federal 17 1SWD Final Tops

KB
(via survey plat)

3,189

Notes: This is a vertical salt water disposal well (SWD).

Surface Location

Sec 17

T26S

R32E

Lea Co. NM, Surface
Location: 1950' FWL &
2284' FNL

**Formation
Name**

**Formation
Top
(TYD)**

**Subsea
Depth**

**Gross
Thickness**

**Gross
Thickness**

**Gross
Thickness**

Comments

Quaternary	Surface					
Rustler	1,028	2,161				
Castile	2,577	612				
Delaware Top	4,326	-1,137				
Ramsey	4,360	-1,171				
Ford Sh	4,419	-1,230				
Olds	4,432	-1,243				
Cherry Canyon SWDZ 1 Top	5,684	-2,495				Disposal zone
Cherry Canyon SWDZ 2 Top	5,733	-2,544				Disposal zone
Cherry Canyon SWDZ 3 Top	5,812	-2,623				Disposal zone
Cherry Canyon SWDZ 4 Top	5,877	-2,688				Disposal zone
TD	6,278	-3,089				

Jones, William V., EMNRD

From: Williams, Donna J <Donna.J.Williams@conocophillips.com>
Sent: Tuesday, August 07, 2012 11:35 AM
To: Jones, William V., EMNRD
Subject: FW: Order 1316
Attachments: 2012080712270333.pdf

Please find attached a copy of the return receipt whereby notice was provided to Sahara Operating as it pertains to our request to amend the above referenced Order. If you have any questions, or need additional information, please let me know. Thanks.

ns, Donna J
y, August 07, 2012 12:27 PM
. Donna J

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Sahara Operating Company
306 W. Wall St. #1025
Midland, TX. 79701-5101

2. Article Number

(transfer from service label)

7011 0470 0001 5356 2622

COMPLETE THIS SECTION ON DELIVERY

A. Signature

[Handwritten Signature]

- Agent
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

8-1

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

- Certified Mail
- Express Mail
- Registered
- Return Receipt for Merchandise
- Insured Mail
- C.O.D.

4. Restricted Delivery? (Extra Fee)

Yes

Injection Permit Checklist (11/15/2010)

WFX _____ PMX _____ SWD 1316-A Permit Date 8/15/12 UIC Qtr (JTA)S

Wells 1 Well Name(s): Bucid Federal SWD # 1

API Num: 30-025-~~1111~~ Spud Date: None Yet New/Old: N (UIC primacy March 7, 1982).

Footages 2284 FNL / 1950 Full F Unit Sec 17 Tsp 26S Rge 32E County LEA

General Location: JUST N. of TEXAS, NE of Red Lake

Operator: Corroco APLS COMPANY Contact BRIAN MAIORINO

OGRID: 217817 RULE 5.9 Compliance (Wells) _____ (Finan Assur) _____ IS 5.9 OK? OK

Well File Reviewed _____ Current Status: None Yet

Planned Work to Well: _____

Diagrams: Before Conversion _____ After Conversion Elogs in Imaging File: NO T Drilled

Well Details:	Sizes		Setting Depths	Stage Tool	Cement Sx or Cf	Determination Method
	Hole	Pipe				
New ___ Existing ___ Surface	<u>12 1/4</u>	<u>9 5/8</u>			<u>280</u>	<u>Surf</u>
New ___ Existing ___ Interm						
New ___ Existing ___ LongSt	<u>8 3/4</u>	<u>7</u>	<u>6300'</u>		<u>540</u>	<u>surf</u>
New ___ Existing ___ Liner						
New ___ Existing ___ OpenHole						

Depths/Formations:	Depths, Ft.	Formation	Tops?
Formation(s) Above	<u>4937</u>	<u>Del</u>	<input checked="" type="checkbox"/>
<u>5686</u> Injection TOP:	<u>5715</u>	<u>BS</u>	<input checked="" type="checkbox"/>
<u>5932</u> Injection BOTTOM:	<u>5905</u>	<u>BS</u>	<input checked="" type="checkbox"/>
Formation(s) Below	<u>8254</u>	<u>BS</u>	<input checked="" type="checkbox"/>

Max. PSI 1157 OpenHole _____ Perfs
 Tubing Size 3 1/2 Packer Depth 5700'

Capitan Rest? (Rest#3) Noticed? (WHP#2) Noticed? Salado Top/Bot 765 Oil House?

Fresh Water: _____ Depths 1025 Formation BS Wells? Analysis? Affirmative Statement

Disposal Fluid Analysis? Sources: Avalon, BS, etc

Disposal Interval: Analysis? Production Potential/Testing: Well - Below any Prod.

Notice: Newspaper Date 12/20/11 Surface Owner BE M (12/19) Mineral Owner(s) BE M

RULE 26.7(A) Affected Persons: Sahara Op. Co. (12/19)

AOR: Maps? Well List? Producing in Interval? Wellbore Diagrams?

.....Active Wells Repairs? _____ Which Wells? _____

.....P&A Wells Repairs? _____ Which Wells? _____

Issues: _____ Request Sent _____ Reply: _____