

# Additional Information

BTA Turner 8408 JV-P#1

(SWD-2507)

pAZS2233434844

Dec 18, 2023

**Harris, Anthony, EMNRD**

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**From:** Sammy Hajar <SHajar@btaoil.com>  
**Sent:** Monday, December 18, 2023 12:07 PM  
**To:** Harris, Anthony, EMNRD; Goetze, Phillip, EMNRD  
**Cc:** Chavez, Carl, EMNRD; Gebremichael, Million, EMNRD; Katy W. Reddell  
**Subject:** [EXTERNAL] RE: BTA Oil Producers Class II SWD Well (API# 30-025-29414) Application Status Request: Action ID# 151533

**Attachments:** Midway 3 San Andres Water Analysis.pdf; Pre-Ongard #003 -WBD.pdf

**Importance:** High

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

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Hi Anthony,

When I went out to search for the “30-025-03943 (NM State X well)” on the OCD Website, it was listed as the “PRE-ONGARD WELL #003” which is what we titled the document. Please see attached for the requested documents. Please let me know if you may need anything else. If you have any questions, feel free to reach out/call.

Thanks,

***Sammy Hajar***  
***Regulatory***  
***BTA Oil Producers, LLC***  
***104 S. Pecos***  
***Midland, TX. 79701***  
***Office: 432-682-3753 ext. 106***




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**From:** Harris, Anthony, EMNRD <Anthony.Harris@emnrd.nm.gov>  
**Sent:** Thursday, December 14, 2023 4:56 PM  
**To:** Goetze, Phillip, EMNRD <phillip.goetze@emnrd.nm.gov>; Sammy Hajar <SHajar@btaoil.com>  
**Cc:** Chavez, Carl, EMNRD <Carlj.Chavez@emnrd.nm.gov>; Gebremichael, Million, EMNRD <Million.Gebremichael@emnrd.nm.gov>; Nick Eaton <NEaton@btaoil.com>; Katy W. Reddell <KReddell@btaoil.com>  
**Subject:** RE: BTA Oil Producers Class II SWD Well (API# 30-025-29414) Application Status Request: Action ID# 151533

**Caution:** This email originated from outside of BTA. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good Afternoon Sammy

I have reviewed the subject SWD application and noted the following:

1. No plugging report was provided for the 30-025-03943 (NM State X well) that is located within the ½ mile Area of Review.
  - a. Please provide plugging details for this well.
2. No Analysis of the Disposal zone (ie. San Andres) formation water was included with the application
  - a. Please provide an analysis of the San Andres water.
  - b. In the event no water sample is available, please provide a statement to clarify that no sample and/or analysis is available.

Regards  
Tony Harris  
Petroleum Specialist  
[Anthony.harris@emnrd.nm.gov](mailto:Anthony.harris@emnrd.nm.gov)  
505 549 8131.



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**From:** Goetze, Phillip, EMNRD <[phillip.goetze@emnrd.nm.gov](mailto:phillip.goetze@emnrd.nm.gov)>  
**Sent:** Thursday, December 7, 2023 3:18 PM  
**To:** Sammy Hajar <[SHajar@btaoil.com](mailto:SHajar@btaoil.com)>  
**Cc:** Chavez, Carl, EMNRD <[Carlj.Chavez@emnrd.nm.gov](mailto:Carlj.Chavez@emnrd.nm.gov)>; Gebremichael, Million, EMNRD <[Million.Gebremichael@emnrd.nm.gov](mailto:Million.Gebremichael@emnrd.nm.gov)>; Nick Eaton <[NEaton@btaoil.com](mailto:NEaton@btaoil.com)>; Katy W. Reddell <[KReddell@btaoil.com](mailto:KReddell@btaoil.com)>; Harris, Anthony, EMNRD <[Anthony.Harris@emnrd.nm.gov](mailto:Anthony.Harris@emnrd.nm.gov)>  
**Subject:** BTA Oil Producers Class II SWD Well (API# 30-025-29414) Application Status Request: Action ID# 151533

RE: SWD-2507; pAZS2233434844; Action ID: 151533

Sammy:

The application has been logged in. In the next few days, you will receive notice of the admin complete review in the next few days. Technical review will begin next week. One question though, was the unit operator for the Vindicator Unit provided notice of the C-108 application? Thank you. PRG

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**From:** Sammy Hajar <[SHajar@btaoil.com](mailto:SHajar@btaoil.com)>  
**Sent:** Thursday, December 7, 2023 2:30 PM  
**To:** Goetze, Phillip, EMNRD <[phillip.goetze@emnrd.nm.gov](mailto:phillip.goetze@emnrd.nm.gov)>  
**Cc:** Chavez, Carl, EMNRD <[Carlj.Chavez@emnrd.nm.gov](mailto:Carlj.Chavez@emnrd.nm.gov)>; Gebremichael, Million, EMNRD <[Million.Gebremichael@emnrd.nm.gov](mailto:Million.Gebremichael@emnrd.nm.gov)>; Nick Eaton <[NEaton@btaoil.com](mailto:NEaton@btaoil.com)>; Katy W. Reddell <[KReddell@btaoil.com](mailto:KReddell@btaoil.com)>  
**Subject:** FW: [EXTERNAL] RE: BTA Oil Producers Class II SWD Well (API# 30-025-29414) Application Status Request: Action ID# 151533  
**Importance:** High

Hello,

I am emailing to see if the review of our C108 Application for our Turner #1 SWD (API#: 30-025-29414) has begun. We continue to experience water take away issues in this area, and we were hoping to alleviate those issues with the use of this SWD. Do you have any status updates on this or estimates on when we will hear something back? We submitted this application over a year ago on October 28<sup>th</sup> 2022. Please let me know if you may need anything else from us, and we will respond as soon as possible.

Thanks,

**Sammy Hajar**  
**Regulatory**  
**BTA Oil Producers, LLC**  
**104 S. Pecos**  
**Midland, TX. 79701**  
**Office: 432-682-3753 ext. 106**



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**From:** Sammy Hajar  
**Sent:** Monday, November 6, 2023 10:04 AM  
**To:** Goetze, Phillip, EMNRD <[phillip.goetze@emnrd.nm.gov](mailto:phillip.goetze@emnrd.nm.gov)>  
**Cc:** Chavez, Carl, EMNRD <[Carlj.Chavez@emnrd.nm.gov](mailto:Carlj.Chavez@emnrd.nm.gov)>; Gebremichael, Million, EMNRD <[Million.Gebremichael@emnrd.nm.gov](mailto:Million.Gebremichael@emnrd.nm.gov)>  
**Subject:** FW: [EXTERNAL] RE: BTA Oil Producers Class II SWD Well (API# 30-025-29414) Application Status Request: Action ID# 151533  
**Importance:** High

Hi,

I am emailing for a status update on our C108 Application/Turner #1 SWD Conversion submitted **10-28-2022**, for our Turner SWD (API#: 30-025-29414). As previously mentioned, I continue to reach out regarding this application due to the water takeaway issues we continue to experience in the area. Do you have any sort of estimate on when we may hear back on the status of this application? Please let me know if you have any questions, or are in need of additional information.

Thanks,

**Sammy Hajar**  
**Regulatory**  
**BTA Oil Producers, LLC**  
**104 S. Pecos**  
**Midland, TX. 79701**  
**Office: 432-682-3753 ext. 106**



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**From:** Sammy Hajar  
**Sent:** Monday, August 14, 2023 4:08 PM  
**To:** Goetze, Phillip, EMNRD <[phillip.goetze@emnrd.nm.gov](mailto:phillip.goetze@emnrd.nm.gov)>  
**Cc:** Nick Eaton <[NEaton@btaoil.com](mailto:NEaton@btaoil.com)>  
**Subject:** RE: [EXTERNAL] RE: BTA Oil Producers Class II SWD Well (API# 30-025-29414) Application Status Request: Action ID# 151533

Hi Phillip,

Thank you, I appreciate your response. In your review of the application, please let me know if you are in need of any additional information or material, and I will reply as quickly as possible.

Thanks,

***Sammy Hajar***  
***Regulatory***  
***BTA Oil Producers, LLC***  
***104 S. Pecos***  
***Midland, TX. 79701***  
***Office: 432-682-3753 ext. 106***



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**From:** Goetze, Phillip, EMNRD <[phillip.goetze@emnrd.nm.gov](mailto:phillip.goetze@emnrd.nm.gov)>  
**Sent:** Monday, August 14, 2023 4:03 PM  
**To:** Sammy Hajar <[SHajar@btaoil.com](mailto:SHajar@btaoil.com)>  
**Cc:** Chavez, Carl, EMNRD <[Carlj.Chavez@emnrd.nm.gov](mailto:Carlj.Chavez@emnrd.nm.gov)>; Gebremichael, Million, EMNRD <[Million.Gebremichael@emnrd.nm.gov](mailto:Million.Gebremichael@emnrd.nm.gov)>  
**Subject:** RE: [EXTERNAL] RE: BTA Oil Producers Class II SWD Well (API# 30-025-29414) Application Status Request: Action ID# 151533

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Mr. Hajar:

We take a look at this application. As to a “ballpark” estimate, this is difficult at this moment with recent changes in personnel and the increased scope of responsibilities of the group. After a review of the application we can provide you with a more accurate response on the status of the application. PRG

---

**From:** Sammy Hajar <[SHajar@btaoil.com](mailto:SHajar@btaoil.com)>  
**Sent:** Monday, August 14, 2023 2:44 PM  
**To:** Goetze, Phillip, EMNRD <[phillip.goetze@emnrd.nm.gov](mailto:phillip.goetze@emnrd.nm.gov)>

**Cc:** Chavez, Carl, EMNRD <[Carlj.Chavez@emnrd.nm.gov](mailto:Carlj.Chavez@emnrd.nm.gov)>; Gebremichael, Million, EMNRD <[Million.Gebremichael@emnrd.nm.gov](mailto:Million.Gebremichael@emnrd.nm.gov)>

**Subject:** FW: [EXTERNAL] RE: BTA Oil Producers Class II SWD Well (API# 30-025-29414) Application Status Request: Action ID# 151533

**Importance:** High

Hi,

I am emailing for a status update on our C108 Application/Turner #1 SWD Conversion submitted 10-28-2022, for our Turner SWD (API#: 30-025-29414). I continue to reach out because of our water takeaway issues in the area. We have reached out before to try to get an estimate or timeline for the approval of our application, but have not heard anything back (Please see forwarded messages below).

Is it possible to get a "ballpark" estimate on when we can expect to see the approval of this application? If there is anything else you may need for the approval of this application, please let me know and I will get back to you as soon as possible.

Please see below for more info:

Well Name: Turner 8408 JV-P #1

API: 30-025-29414

SUBMISSION ID: 151533

PO NUMBER: SO0VB-221018-C-108

Reference Number: pAZS2233434844

Thanks,

***Sammy Hajar***  
***Regulatory***  
***BTA Oil Producers, LLC***  
***104 S. Pecos***  
***Midland, TX. 79701***  
***Office: 432-682-3753 ext. 106***



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**From:** Sammy Hajar

**Sent:** Monday, July 10, 2023 5:04 PM

**To:** Goetze, Phillip, EMNRD <[phillip.goetze@emnrd.nm.gov](mailto:phillip.goetze@emnrd.nm.gov)>

**Cc:** Chavez, Carl, EMNRD <[Carlj.Chavez@emnrd.nm.gov](mailto:Carlj.Chavez@emnrd.nm.gov)>; Schaefer, Alana, EMNRD <[Alana.Schaefer@emnrd.nm.gov](mailto:Alana.Schaefer@emnrd.nm.gov)>;

Nick Eaton <[NEaton@btaoil.com](mailto:NEaton@btaoil.com)>

**Subject:** FW: [EXTERNAL] RE: BTA Oil Producers Class II SWD Well (API# 30-025-29414) Application Status Request: Action ID# 151533

**Importance:** High

Hi,

I am reaching out about the status of our C108 Application/Turner #1 SWD Conversion submitted 10-28-2022, for our Turner SWD (API#: 30-025-29414). I am emailing because of our water takeaway issues in the area. Due to the limited

availability of SWDs in the area, we are being forced to truck our water. With new wells coming on, and additional future development planned, we are concerned that our situation will only get worse. Due to our current predicament, we were hoping to get an update or timeline for the approval of this application, so that we may better plan for the future development of the area. I do realize your office is swamped with these applications, but do you have an estimate on when we can expect to see the approval of our application?

Please see below for more info:

Well Name: Turner 8408 JV-P #1

API: 30-025-29414

SUBMISSION ID: 151533

PO NUMBER: SO0VB-221018-C-108

Reference Number: pAZS2233434844

Thanks,

***Sammy Hajar***

***Regulatory***

***BTA Oil Producers, LLC***

***104 S. Pecos***

***Midland, TX. 79701***

***Office: 432-682-3753 ext. 106***



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**From:** Sammy Hajar

**Sent:** Tuesday, May 23, 2023 4:30 PM

**To:** Goetze, Phillip, EMNRD <[phillip.goetze@emnrd.nm.gov](mailto:phillip.goetze@emnrd.nm.gov)>

**Cc:** Schaefer, Alana, EMNRD <[Alana.Schaefer@emnrd.nm.gov](mailto:Alana.Schaefer@emnrd.nm.gov)>; Chavez, Carl, EMNRD <[Carlj.Chavez@emnrd.nm.gov](mailto:Carlj.Chavez@emnrd.nm.gov)>

**Subject:** RE: [EXTERNAL] RE: BTA Oil Producers Class II SWD Well (API# 30-025-29414) Application Status Request: Action ID# 151533

**Importance:** High

Good Afternoon,

I am following up on my phone call with you today. I am reaching out about our C108 Application/Turner #1 SWD Conversion submitted 10-28-2022. We have upcoming development in the area, and I want to follow up to see if you could give us a timeline on the approval of this application?

BTA has contracted a 3<sup>rd</sup> party SWD in the meantime to handle our water, but recently they have had issues causing BTA to have to choke off multiple wells and forcing us to truck our remaining water. We have 2 wells scheduled to flowback next week (5/29/23) in this area, and are concerned about water takeaway. We are also set to have 2 additional wells flowback next month in June, with more wells set to come on in the near future. There are limited options for water takeaway in the area, which makes this application all the more important for future development.

Please let me know if you are in need of anything else for the approval of this application. Feel free to call if you have any questions.

Please see below for more info:

Well Name: Turner 8408 JV-P #1

API: 30-025-29414

SUBMISSION ID: 151533

PO NUMBER: SO0VB-221018-C-108

Reference Number: pAZS2233434844

Thanks,

**Sammy Hajar**

**Regulatory**

**BTA Oil Producers, LLC**

**104 S. Pecos**

**Midland, TX. 79701**

**Office: 432-682-3753 ext. 106**



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**From:** Schaefer, Alana, EMNRD <[Alana.Schaefer@emnrd.nm.gov](mailto:Alana.Schaefer@emnrd.nm.gov)>

**Sent:** Thursday, March 23, 2023 9:36 AM

**To:** Sammy Hajar <[SHajar@btaoil.com](mailto:SHajar@btaoil.com)>

**Cc:** Goetze, Phillip, EMNRD <[phillip.goetze@emnrd.nm.gov](mailto:phillip.goetze@emnrd.nm.gov)>

**Subject:** RE: [EXTERNAL] RE: BTA Oil Producers Class II SWD Well (API# 30-025-29414) Application Status Request: Action ID# 151533

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Sammy,

Thanks for the documents. I will put them into your file and will continue my review of the application.

Thank you,

Alana

---

**From:** Sammy Hajar <[SHajar@btaoil.com](mailto:SHajar@btaoil.com)>

**Sent:** Wednesday, March 22, 2023 8:48 AM

**To:** Schaefer, Alana, EMNRD <[Alana.Schaefer@emnrd.nm.gov](mailto:Alana.Schaefer@emnrd.nm.gov)>

**Cc:** Goetze, Phillip, EMNRD <[phillip.goetze@emnrd.nm.gov](mailto:phillip.goetze@emnrd.nm.gov)>

**Subject:** RE: [EXTERNAL] RE: BTA Oil Producers Class II SWD Well (API# 30-025-29414) Application Status Request: Action ID# 151533

**Importance:** High

Hi Alana,

I have attached a signed copy of the previously discussed document, which includes a signature by Raj Eti below the affirmative statement under section XII. I went ahead and sent a copy of the C108/SWD Application to the SLO (which included the revised/signed statement), please see attached for the proof of postage (CERTIFIED #: 7021 1970 0001 8172 6347).

If there is anything else I need to do, please instruct me on how to proceed. Also, if you are still in need of anything for the approval of this application, feel free to reach out.

Thanks,

***Sammy Hajar***  
***Regulatory***  
***BTA Oil Producers, LLC***  
***104 S. Pecos***  
***Midland, TX. 79701***  
***Office: 432-682-3753 ext. 106***



---

**From:** Sammy Hajar  
**Sent:** Monday, March 13, 2023 5:18 PM  
**To:** Schaefer, Alana, EMNRD <[Alana.Schaefer@emnrd.nm.gov](mailto:Alana.Schaefer@emnrd.nm.gov)>  
**Subject:** Re: [EXTERNAL] RE: BTA Oil Producers Class II SWD Well (API# 30-025-29414) Application Status Request: Action ID# 151533

Hi Alana,

I will get you a new signed statement. Can I just email it to you directly?

After looking into this further, I realized we forgot to send a copy to the SLO. What steps can we take now? Can I go ahead and send a copy of the full application to the SLO tomorrow, and provide you with proof of postage?

Thanks,  
Sammy Hajar

On Mar 13, 2023, at 5:09 PM, Schaefer, Alana, EMNRD <[Alana.Schaefer@emnrd.nm.gov](mailto:Alana.Schaefer@emnrd.nm.gov)> wrote:

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Sammy,

Thanks for your reply. First, for the Affirmative Statement piece, we will need an actual signature from the qualified person (see example attached). Also, if needed, we can set up a meeting to talk sometime on Wednesday. Do you have any quick questions that me or my supervisor (Phil Goetze) can answer right now via email?

Thanks,  
Alana

---

**From:** Sammy Hajar <[SHajar@btaoil.com](mailto:SHajar@btaoil.com)>  
**Sent:** Monday, March 13, 2023 9:46 AM  
**To:** Schaefer, Alana, EMNRD <[Alana.Schaefer@emnrd.nm.gov](mailto:Alana.Schaefer@emnrd.nm.gov)>  
**Subject:** RE: [EXTERNAL] RE: BTA Oil Producers Class II SWD Well (API# 30-025-29414) Application Status Request: Action ID# 151533

Hi Alana,

Do you have time to discuss this over the phone this afternoon? I have a couple questions. Also, our statement for part XII should be listed on the Page 20, under section XII. Does this suffice? (please see attached picture below for reference.

<image001.png>

Please let me know if you have time to schedule a call, you can reach me directly at 432-528-9755.

Thanks,

***Sammy Hajar***  
***Regulatory***  
***BTA Oil Producers, LLC***  
***104 S. Pecos***  
***Midland, TX. 79701***  
***Office: 432-682-3753 ext. 106***  
<image002.png>

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**From:** Schaefer, Alana, EMNRD <[Alana.Schaefer@emnrd.nm.gov](mailto:Alana.Schaefer@emnrd.nm.gov)>  
**Sent:** Monday, March 13, 2023 9:45 AM  
**To:** Sammy Hajar <[SHajar@btaoil.com](mailto:SHajar@btaoil.com)>  
**Subject:** RE: [EXTERNAL] RE: BTA Oil Producers Class II SWD Well (API# 30-025-29414) Application Status Request: Action ID# 151533

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Hello Sammy,

An administrative review was done on the application and the following items are needed:

1. Statement of a qualified person endorsing the application including: Name, Title, Qualifications, and a signature. (XII)
2. BLM and/or NMSLO notified per 19.15.2.7(A)(8)(d) NMAC. (XIII)

Once you have these items, you can send them to me and I can put them into the application. I will then start a technical review of the application.

Thank you,  
Alana Schaefer

---

**From:** Sammy Hajar <[SHajar@btaoil.com](mailto:SHajar@btaoil.com)>  
**Sent:** Monday, March 6, 2023 7:48 AM  
**To:** Goetze, Phillip, EMNRD <[phillip.goetze@emnrd.nm.gov](mailto:phillip.goetze@emnrd.nm.gov)>  
**Cc:** Chavez, Carl, EMNRD <[Carlj.Chavez@emnrd.nm.gov](mailto:Carlj.Chavez@emnrd.nm.gov)>  
**Subject:** [EXTERNAL] RE: BTA Oil Producers Class II SWD Well (API# 30-025-29414) Application Status  
**Request:** Action ID# 151533  
**Importance:** High

**CAUTION:** This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Hi Phillip,

I was hoping to find out if there has been any movement on our C108 Application/Turner #1 SWD Conversion submitted 10-28-22. We have upcoming development in the area, and I want to follow up to see if the application is in the review process yet? Please let me know if you may need anything else for the approval of this application. Please see below for more details

Well Name: Turner 8408 JV-P #1  
API: 30-025-29414  
SUBMISSION ID: 151533  
PO NUMBER: SO0VB-221018-C-108  
Reference Number: pAZS2233434844

Thanks,

***Sammy Hajar***  
***Regulatory***  
***BTA Oil Producers, LLC***  
***104 S. Pecos***  
***Midland, TX. 79701***  
***Office: 432-682-3753 ext. 106***  
<image002.png>

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**From:** Chavez, Carl, EMNRD <[Carlj.Chavez@emnrd.nm.gov](mailto:Carlj.Chavez@emnrd.nm.gov)>  
**Sent:** Thursday, January 12, 2023 12:15 PM

**To:** Goetze, Phillip, EMNRD <[phillip.goetze@emnrd.nm.gov](mailto:phillip.goetze@emnrd.nm.gov)>

**Cc:** Sammy Hajar <[SHajar@btaoil.com](mailto:SHajar@btaoil.com)>

**Subject:** BTA Oil Producers Class II SWD Well (API# 30-025-29414) Application Status Request: Action ID# 151533

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Phil,

Good morning!

Mr. Sammy Hajar at (432) 682-3753 called this morning to inquire about the status of the UIC Class II SWD Well application.

He indicated he spoke with you several months back on the application.

He requests a response at your earliest convenience.

Thank you.

**Carl J. Chavez** • UIC Group

Engineering Bureau

EMNRD - Oil Conservation Division

5200 Oakland Avenue, N.E. Suite 100 | Albuquerque, NM 87113

505.660.7923 | [CarlJ.Chavez@emnrd.nm.gov](mailto:CarlJ.Chavez@emnrd.nm.gov)

[www.emnrd.nm.gov](http://www.emnrd.nm.gov)

<image003.jpg>

<20063\_Example of affirmation statement.pdf>

# Pro-Kem, Inc.

## WATER ANALYSIS REPORT

### SAMPLE

Oil Co. : **BTA**  
 Lease : **Midway**  
 Well No.: **3**  
 Location:  
 Attention:

Date Sampled : **18-July-2013**  
 Date Analyzed: **01-August-2013**  
 Lab ID Number: **Aug0113.001- 7**  
 Salesperson :  
 File Name : **Aug0113.001**

### ANALYSIS

- 1. Ph **6.400**
- 2. Specific Gravity 60/60 F. **1.011**
- 3. CACO3 Saturation Index @ 80F  
@ 140F

**-0.796**      **Negligible**  
**-0.006**      **Negligible**

#### Dissolved Gasses

	<b>MG/L.</b>	<b>EQ. WT.</b>	<b>*MEQ/L</b>
4. Hydrogen Sulfide	<b>1000</b>		
5. Carbon Dioxide	<b>500</b>		
6. Dissolved Oxygen	<b>Not Determined</b>		

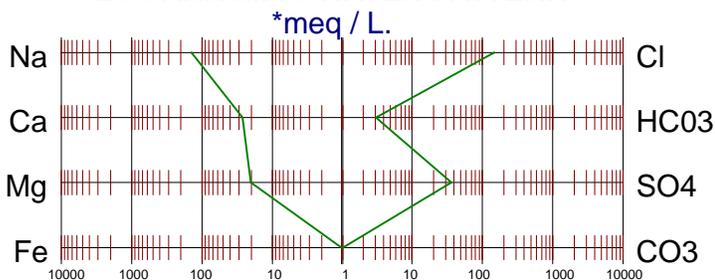
#### Cations

7. Calcium (Ca++)	<b>510</b>	/ 20.1 =	<b>25.37</b>
8. Magnesium (Mg++)	<b>236</b>	/ 12.2 =	<b>19.34</b>
9. Sodium (Na+) (Calculated)	<b>3,091</b>	/ 23.0 =	<b>134.39</b>
10. Barium (Ba++)	<b>Not Determined</b>		

#### Anions

11. Hydroxyl (OH-)	<b>0</b>	/ 17.0 =	<b>0.00</b>
12. Carbonate (CO3=)	<b>0</b>	/ 30.0 =	<b>0.00</b>
13. Bicarbonate (HCO3-)	<b>179</b>	/ 61.1 =	<b>2.93</b>
14. Sulfate (SO4=)	<b>1,700</b>	/ 48.8 =	<b>34.84</b>
15. Chloride (Cl-)	<b>4,999</b>	/ 35.5 =	<b>140.82</b>
16. Total Dissolved Solids	<b>10,715</b>		
17. Total Iron (Fe)	<b>3.00</b>	/ 18.2 =	<b>0.16</b>
18. Manganese (Mn++)	<b>Not Determined</b>		
19. Total Hardness as CaCO3	<b>2,244</b>		
20. Resistivity @ 75 F. (Calculated)	<b>0.560</b> Ohm · meters		

#### LOGARITHMIC WATER PATTERN

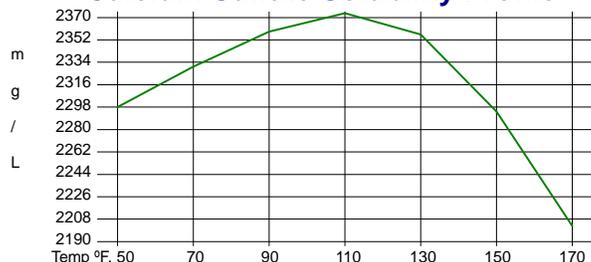


#### PROBABLE MINERAL COMPOSITION

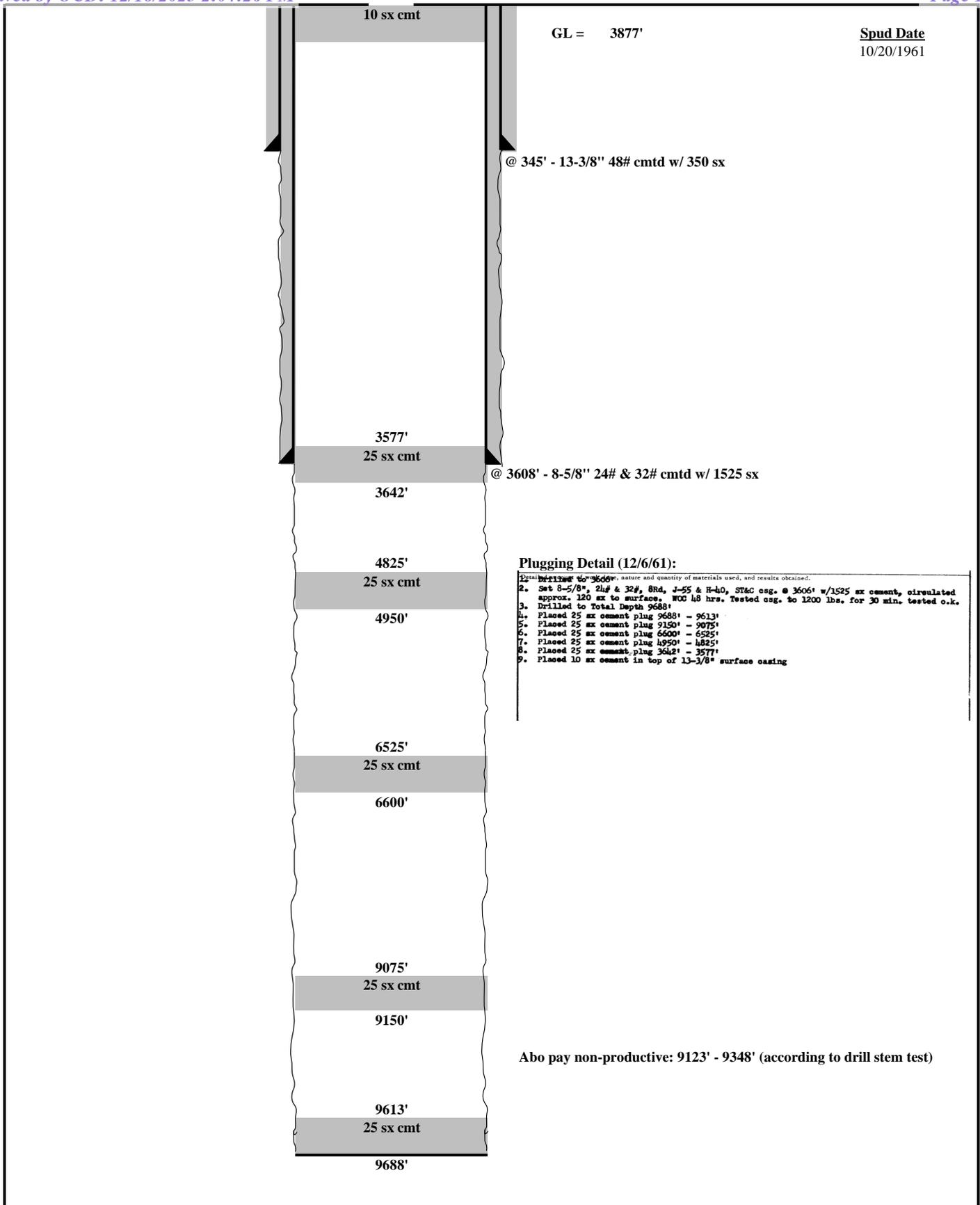
COMPOUND	*meq/L	X	EQ. WT. =	mg/L.
Ca(HCO3)2	<b>2.93</b>		81.04	<b>237</b>
CaSO4	<b>22.44</b>		68.07	<b>1,528</b>
CaCl2	<b>0.00</b>		55.50	<b>0</b>
Mg(HCO3)2	<b>0.00</b>		73.17	<b>0</b>
MgSO4	<b>12.39</b>		60.19	<b>746</b>
MgCl2	<b>6.95</b>		47.62	<b>331</b>
NaHCO3	<b>0.00</b>		84.00	<b>0</b>
NaSO4	<b>0.00</b>		71.03	<b>0</b>
NaCl	<b>133.87</b>		58.46	<b>7,826</b>

\* milliequivalents per Liter

#### Calcium Sulfate Solubility Profile



David Chavez, Analyst



**Plugging Detail (12/6/61):**

1. Drilled to 3606'
2. Set 8-5/8", 24# & 32#, 8Rd, J-55 & H-40, ST&C csg. @ 3606' w/1525 sx cement, circulated approx. 120 sx to surface. WOC 48 hrs. Tested csg. to 1200 lbs. for 30 min. tested o.k.
3. Drilled to Total Depth 9688'
4. Placed 25 sx cement plug 9688' - 9613'
5. Placed 25 sx cement plug 9150' - 9075'
6. Placed 25 sx cement plug 6600' - 6525'
7. Placed 25 sx cement plug 4950' - 4825'
8. Placed 25 sx cement plug 3642' - 3577'
9. Placed 10 sx cement in top of 13-3/8" surface casing

Revised	<b>Vertical Well</b> LEASE: <b>Pre-Ongard #003</b> FIELD: <b>Undesignated Abo</b> LOCATION: <b>660' FNL &amp; 660' FEL of Section 20; T-17-S; R-36-E</b> COUNTY: <b>Lea</b> STATE: <b>New Mexico</b> STATUS: <b>P&amp;A'd</b> API: <b>30-025-03943</b>	<b>Drawn By:</b>	<b>Date:</b>
		<b>HCD</b>	<b>12/18/2023</b>

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**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS

Action 295838

**CONDITIONS**

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 295838
	Action Type: [IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

**CONDITIONS**

Created By	Condition	Condition Date
anthony.harris	None	12/18/2023