

Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Thursday, September 27, 2012 4:00 PM
To: 'Fernandez, Edward'; Wesley_Ingram@blm.gov
Cc: Gonzales, Elidio L, EMNRD; Gerholt, Gabrielle, EMNRD
Subject: Acid Gas disposal well for Frontier: Maljamar AGI #1 (finalized permit)

Hello Ed and Wesley,

As you know, we have all talked this over, talked to you guys and our district geologist, and today Director Bailey was briefed and she decided that "approximately" in this instance DOES include an additional 150 feet below the originally permitted disposal depth range. We are pleased Frontier has decided to contract the top of the disposal interval away from the producing interval of those marginal producing wells located to the north of this location and internally our geologist is satisfied that 10,150 feet is well within the Wolfcamp formation as encountered in this well.

Anyway, Frontier does not want a formally amended permit, and everyone seems OK with this, so we intend only to incorporate the new wellbore diagram into our permit Case file and update our internal database records but do not plan on any adjustment in the permitted disposal pressure as stated in the existing permit or any change in the permitted disposal depths. If an amended permit were done, we could have adjusted the depths and the allowable pressure, but in any event, if Frontier needs additional wellhead disposal pressure, it can run a Step Rate Test and apply with that supporting data.

I know this is a federal well, but in any event, Thank You for actively participating in this!

Regards,

William V. Jones, P.E.
505-476-3448W 505-476-3462F
Engineering Bureau, Oil Conservation Division
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Santa Fe, NM 87505

Jones, William V., EMNRD

From: Alberto A. Gutierrez, RG <aag@geolex.com>
Sent: Tuesday, September 25, 2012 3:35 PM
To: Jones, William V., EMNRD
Cc: Fernandez, Edward; Gonzales, Elidio L, EMNRD; 'Bentley, Russell E.'
Subject: Maljamar AGI #1 injection zone
Attachments: Frontier.OCD Order No. 13443.pdf; 080212R Maljamar AGI #1 core results.pdf

Importance: High

Will

I have realized when reviewing our proposed and approved completion plan for the Maljamar well that the order on page 4 item 1 reads that we can inject "through perforations from approximately 9300-10000 feet". As you can see from our enclosed completion/perforation plan which was included in the 3160-5 which I copied you on earlier, that the Lower Wolfcamp in the well actually extends beyond 10150 and that we intend to perforate the zones between 10009-10025 and 10090-10130. We are well above the base of the approved zone and we have eliminated the perforation of the Lower Leonard as a zone with our highest perforation at about 9579'. This will assure we don't interfere with any other above production and we still have enough Wolfcamp injection zone to put away the relatively small injection volumes we require.

I just wanted to bring this to your attention and would request that you look at this situation and if you concur that our proposed injection perforations are consistent with the order that you will reply all to this email such that BLM can add it to their file with the approved sundry. Please call me to discuss or if you have any questions. I have attached the analysis that allowed us to identify these as the best zones and a copy of the highlighted section of the order for your easy reference. Thanks and I look forward to your prompt reply as we will be rigging the perforating guns later this week after we run the CBL.

Regards,
Alberto

Alberto A. Gutiérrez, RG
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COMPLETION PROGRAM

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**FRONTIER MALJAMAR AGI #1
PROPOSED WELLBORE**

OH = 26"
20" at 80'

SSSV at 250'

OH = 17 1/2"
13 3/8" at 875'

OH = 12 1/4"
8 5/8" at 4220'

OH = 7 5/8"

DV Tool #2 at 9344'

2 7/8" to 9496'

Corrosion Resistant Alloy (CRA) Joint Packer at 9496'

Adjustable Choke (top)

Check valve (top)

Perforations

DV Tool #1 at 9753'

5 1/2" at 10,183'

TD 10,183'

9579-9632	U. Wolfcamp	Lower Leonard #1
9768-9821	M. Wolfcamp	
9850-9917	M. Wolfcamp	
9979-9997	M. Wolfcamp	Lower Leonard #2
10009-10025	L. Wolfcamp	
10090-10130	L. Wolfcamp	

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**