30-025-04930

## Brown, Maxey G, EMNRD

From: Sent: To: Subject: Rabadue, Stephanie <Stephanie\_Rabadue@xtoenergy.com> Tuesday, March 25, 2014 9:09 AM Brown, Maxey G, EMNRD RE: Arrowhead Grayburg Unit # 126

HOBBS OCD MAR 2 5 2014 RECEIVED

Good morning, Maxey!

I'll let the engineers know! Thank you so much for your response this morning! Do you want an updated C-103 e-mailed your way with the changes?

Take care and thank you again!

Stephanie Rabadue Regulatory Analyst – Permian Division 432-620-6714 <u>stephanie\_rabadue@xtoenergy.com</u>

From: Brown, Maxey G, EMNRD [mailto:MaxeyG.Brown@state.nm.us]
Sent: Tuesday, March 25, 2014 10:08 AM
To: Rabadue, Stephanie
Subject: RE: Arrowhead Grayburg Unit # 126

Stephanie,

Ok ,if we use 2 intercept points, drop lower intercept point from 2600' to 2750'. This will put cement between the open perforations and the lower fish. Increase cement volume to a minimum of 25 sxs or greater, depending on pump in rate. This gives a plug between producing zone and base of salt. Any questions give me a call. Maxey

From: Rabadue, Stephanie [mailto:Stephanie Rabadue@xtoenergy.com]
Sent: Tuesday, March 25, 2014 6:51 AM
To: Whitaker, Mark A, EMNRD
Cc: Brown, Maxey G, EMNRD; Sonnamaker, William, EMNRD
Subject: RE: Arrowhead Grayburg Unit # 126

Good morning everyone!

We're currently approved to sidetrack PxA the AGU #126 (API: 025-04930) with three intercept points. My drilling operations engineer is concerned as the more intercept points in a sidetrack PxA, the more risky the venture. He is wondering if the following would be acceptable and not threaten the injection integrity of our unit:

1. Eliminating the 3<sup>rd</sup> intercept point at +/-3680'. This would mean that we would not have a plug throughout our producing interval or fill the wellbore with cement.

However, the rest of the program would stay the same with two intercept points at the top and base of the salt zones (+/-2600' & 1283' respectively).

In regard to pumping down the wellbore with any fluids after the fish were lost in the hole: I am not sure. I've attached the daily reports of us working on the well prior to making the decision to sidetrack PxA to provide a better idea of what we have done with the well to-date. Additionally, I've included the proposed PxA sketch whose only changes from the

actual sketch, at this time, is where we originally intended to set our plugs with the intercept well. I've done strikethrough with the original plugs that we're currently approved for at this time but have left them on the diagram as a demonstration of both what we'd like to change it to and what we're approved for currently.

Thanks Mark, Maxey and Bill! Any help you can provide is appreciated! As soon as I acquire additional information, I'll pass it along!

Take care and have a great day!

Stephanie Rabadue Regulatory Analyst – Permian Division 432-620-6714 stephanie\_rabadue@xtoenergy.com

From: Whitaker, Mark A, EMNRD [mailto:MarkA.Whitaker@state.nm.us]
Sent: Thursday, March 20, 2014 3:11 PM
To: Rabadue, Stephanie
Cc: Brown, Maxey G, EMNRD; Sonnamaker, William, EMNRD
Subject: Arrowhead Grayburg Unit # 126

Stephanie,

Would you please attach a current wellbore schematic indicating where the fish are in the casing. Also do you know if an attempt was made to pump down the wellbore with any fluids after the fish where lost in the hole.

## Mark A Whitaker

Compliance Officer OCD Hobbs District I 575-393-6161 ext 120 575-399-3202 (cell) WELL NAME: AGU 126 LOCATION: 1980' FNL & 660' FWL, SEC 36 T21S R36E FORMATION: GRBG SPUD DATE: 06/24/40 IP: COUNTY/STATE: LEA, NM LEASE: ARROWHEAD CURRENT STATUS: INJECTOR COMPL DATE: 07/17/40 API No: 30-025-04930



Proposed P&A WBD ELEV GL: 3537' 12 1/4" HOLE KB: 3545' 9-5/8" 25.7# CSG @ 291' Plug-5 4: Perforate @ 340'. CMT W/250 SX Squeeze cmt until circ to CIRC TO SURF surface. Leave 40 sxs cmt Plug 4 3: Mix and spot 5 sxs cmt inside 5-1/2" csg to surface. fr/530' - 430' and leave 6 sxs cmt inside 5-1/2" csg to cover sidetrack window. Set Whipstock @ 430' 5-1/2" TOC @ 400' CSG LEAK (7/8/97) (CBL) Sidetrack: Cmt'd 3-1/2", 9.3#, J-55, LEAK F/420'-923'. SQZ'D W/ IJ csg 300 SX CL C. 4-3/4" Hole STILL LEAKING AFTER SQZ. Plug 3 2: Perforate @ 1,283'. 2 INTERCEPTS ISOLATE CSG LEAK F/422'-Squeeze 23 sxs cmt (100% 672'. Top of salt excess) inside 5-1/2" csg. zone @ 1,233' Displace cmt leaving 5 sxs CSG LEAK (2/12/98) inside 3-1/2" csq to cover CSG LEAK F/419'-667'. SQZ'D perforations. W/168 SX CL C CMT. TOC @ 2,000' (CALC) Fish: 3-3/4" OS. BS. Jars. 6 3-1/8" DC's, XO w/960' of 2-PWG 3/8", L-80 tbg fr/1,500'-2,433' Plug 2 1: Perforate @ 2,600 Move pert. Squeeze 23 sxs cmt (100% excess) inside 5-1/2" csg. +0 2750 Displace cmt leaving 5 sxs cmt inside 3-1/2" csg to cover Base of salt perforations. zone @ 2,550' Fish: Packer 5-1/2" Elder LINER (3/11/98) Lokset Pkr & 260' of 2-3/8", 4.3 POLYBORE LINER F/SURF - 2,737' J-55 Duoline Inj tbg fr/ Plug-1: Perforate @ 3,680. 2,472'-2,732' 5 1/2", 14# CSG MOVE PERFS Squeeze 27 sxs cmit inside 5-1/2" SET @ 3,739' (DRILLER), 3,722' (LOGGER) csg & OH perfs (100% excess). CMT W/350 SX Displace cmt leaving 5 sxs cmt to CIRC TO 2,000 (CALC) inside 3 1/2" csg to cover perforations. 6 3/4" HOLE DMIT Perforations (OH) GRBG 3739'-3840' 4 3/4" OH HYDROMITE F/3800'-3840' TD: 3910' CHANGES TO ORGINAL C-103 ALL CHANGES WILL BE INCLUSED ON C-1035UBSEQUENT MJB 3/25/2014



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