



From: Agnew, Diane, NMENV

Sent: Tuesday, March 21, 2017 9:57 AM

To: Kunkel, Tara S < tara.kunkel@CBIFederalServices.com >; adria.bodour.1@us.af.mil; Burke, Bruce < bruce.burke@CBIFederalServices.com >; CLARK, SCOTT C GS-12 USAF AFMC 377 MSG/CEIR (scott.clark@us.af.mil) < scott.clark@us.af.mil >; Holly O'Grady < holly.ogrady@us.af.mil >; Julie McNeil < jmcneill@portageinc.com >; Kieling, John, NMENV < john.kieling@state.nm.us >; Koster van Groos, Paul < pkostervangroos@cbifederalservices.com >; LaChance, Caitlin Q < caitlin.lachance@CBIFederalServices.com >; Lavorgna, Graig < Graig.Lavorgna@CBIFederalServices.com >; LYNNES, KATHRYN D HQE USAF AFMC 377 MSG/SAF/IEE < kathryn.lynnes@us.af.mil > (kathryn.lynnes@us.af.mil) < kathryn.lynnes@us.af.mil >; Matt Ellender (matthew.b.ellender@usace.army.mil) (matthew.b.ellender@usace.army.mil) < matthew.b.ellender@usace.army.mil >; Romalia, Kathleen < Kathleen.Romalia@CBIFederalServices.com >; Simpler, Trent SPA (Trent.Simpler@usace.army.mil) < Trent.Simpler@usace.army.mil >; suzanne.devergie@us.af.mil
Subject: RE: NMED Approval Requested_Well construction for KAFB-106IN1

Hi Tara,

Attached is the approved well construction diagram.

Diane

From: Kunkel, Tara S [<mailto:tara.kunkel@CBIFederalServices.com>]

Sent: Monday, March 20, 2017 5:50 PM

To: adria.bodour.1@us.af.mil; Burke, Bruce < bruce.burke@CBIFederalServices.com >; CLARK, SCOTT C GS-12 USAF AFMC 377 MSG/CEIR (scott.clark@us.af.mil) < scott.clark@us.af.mil >; Agnew, Diane, NMENV < Diane.Agnew@state.nm.us >; Holly O'Grady < holly.ogrady@us.af.mil >; Julie McNeil < jmcneill@portageinc.com >; Kieling, John, NMENV < john.kieling@state.nm.us >; Koster van Groos, Paul < pkostervangroos@cbifederalservices.com >; LaChance, Caitlin Q < caitlin.lachance@CBIFederalServices.com >; Lavorgna, Graig < Graig.Lavorgna@CBIFederalServices.com >; LYNNES, KATHRYN D HQE USAF AFMC 377 MSG/SAF/IEE < kathryn.lynnes@us.af.mil > (kathryn.lynnes@us.af.mil) < kathryn.lynnes@us.af.mil >; Matt Ellender (matthew.b.ellender@usace.army.mil) (matthew.b.ellender@usace.army.mil) < matthew.b.ellender@usace.army.mil >; Romalia, Kathleen < Kathleen.Romalia@CBIFederalServices.com >; Simpler, Trent SPA (Trent.Simpler@usace.army.mil) < Trent.Simpler@usace.army.mil >; suzanne.devergie@us.af.mil
Subject: NMED Approval Requested_Well construction for KAFB-106IN1

Hello Diane and All,

Please find attached the proposed construction diagram for KAFB-106IN1 for NMED approval. Also attached is the compiled borehole log from 0 to total depth of 537 feet bgs. Per the work plan, the injection well has a 20-foot screen with the top set at the static water table with 10 feet of filter pack set above the screen up to the bottom of the bentonite chip seal.

You will see on the construction diagram we are proposing a 30 foot seal of bentonite chips above the filter pack, like we did on the extraction wells. Additionally, we are proposing the same stainless steel sump as was requested at the extraction wells, also reflected on the construction diagram.



Please find below the static water levels that were measured on Sunday 3/19/17 before aquifer disturbance.

KAFB-106MW1S = 476.33 bgs

KAFB-106MW2S = 477.05 bgs

KAFB-106064 = 476.98 bgs

The depth to water of 477 feet bgs is the static level being proposed to set KAFB-106IN1.

Please let me know if there are any questions!

Very Respectfully,

Tara

Tara S. Kunkel

Geologist

Federal Services

Tel: +1 505 262 8906

Cell: +1 505 967 9521

Tara.Kunkel@CBIFederalServices.com

CB&I

2440 Louisiana Blvd. NE Suite 300

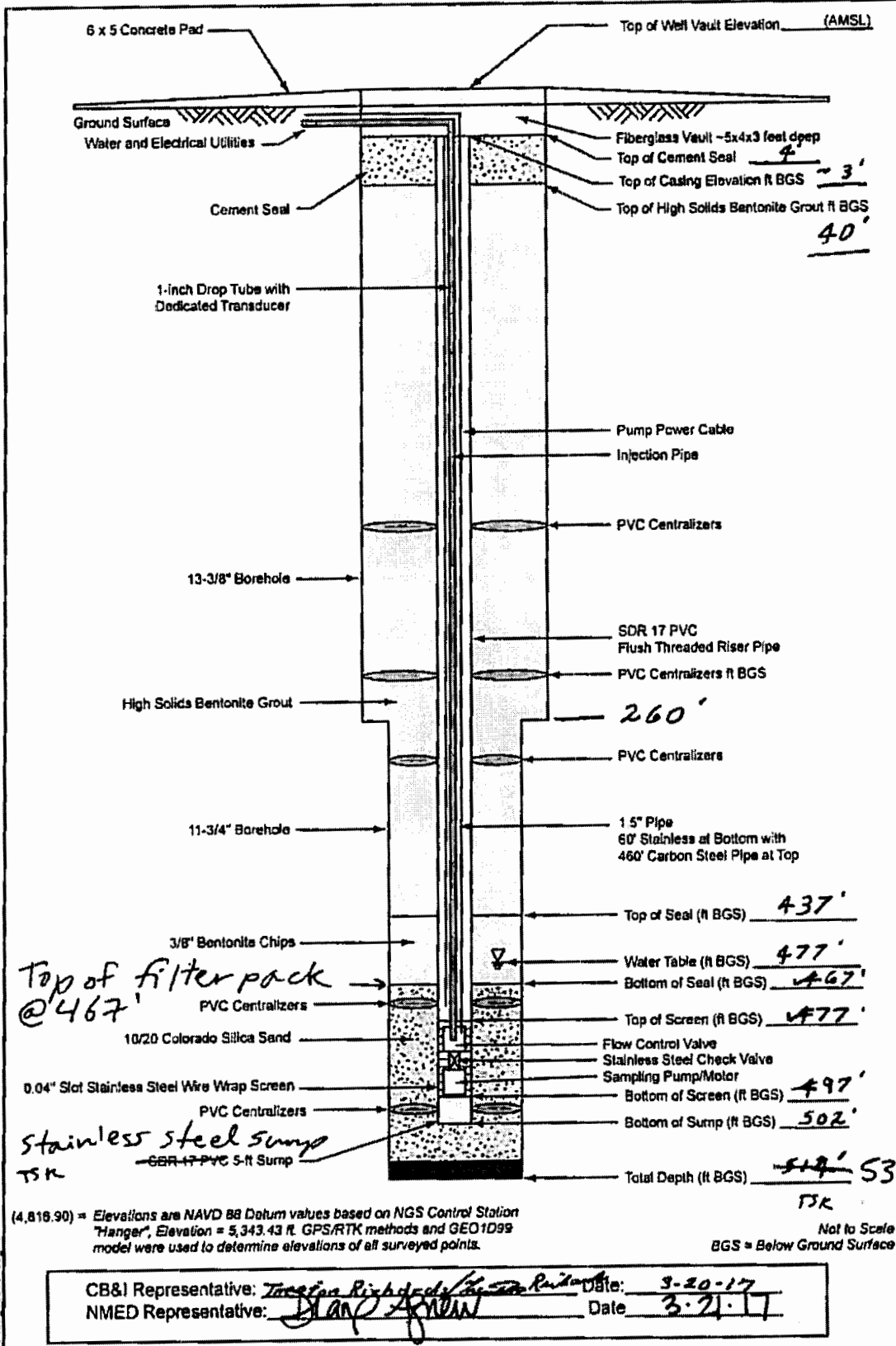
Albuquerque, NM 87110, USA

Conceptual Completion Diagram KAFB-106IN1 Approval Form

Installation Start Date/Time: _____

Installation End Date/Time: _____

Completion Date: _____



(4,818.90) = Elevations are NAVD 88 Datum values based on NGS Control Station "Hanger", Elevation = 5,343.43 ft. GPS/RTK methods and GEO1D99 model were used to determine elevations of all surveyed points.

Not to Scale
BGS = Below Ground Surface

CB&I Representative: <u>Tracy R. [Signature]</u>	Date: <u>3-20-17</u>
NMED Representative: <u>[Signature]</u>	Date: <u>3-21-17</u>

500433 01050100 AS