

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.***Carlsbad Field Office**
OCD Hobbs
HOBBS OCD5. Lease No.
NMNM19858

If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.

HAWK 26 FED 709H

2. Name of Operator

EOG RESOURCES INCORPORATED

Contact: STAN WAGNER

E-Mail: stan_wagner@eogresources.com

9. API Well No.

30-025-42402-00-X1

3a. Address

MIDLAND, TX 79702

3b. Phone No. (include area code)

Ph: 432-686-3689

10. Field and Pool, or Exploratory

WOLFCAMP

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 26 T24S R33E SESE 500FSL 715FEL
32.182585 N Lat, 103.536418 W Lon

11. County or Parish, and State

LEA COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☒ Notice of Intent☐ Subsequent Report☐ Final Abandonment Notice☐ Acidize☐ Alter Casing☐ Casing Repair☐ Change Plans☐ Convert to Injection☐ Deepen☐ Fracture Treat☐ New Construction☐ Plug and Abandon☐ Plug Back☐ Production (Start/Resume)☐ Reclamation☐ Recomplete☐ Temporarily Abandon☐ Water Disposal☐ Water Shut-Off☐ Well Integrity☒ Other
Drilling Operations

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomple horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomple in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

EOG Resources requests approval to run production casing on this well as follows:

5-1/2", 23.0# VST P-110EC VAM SG (0'-11800')

5", 23.2#, T-95 NSCC (11800'-16529' TD) w/ TAM Inflatable Packer at 16329' MD.

Spec sheets attached.

Cemented w/ 150 bbls + 25% excess Class H cement, 14.4 ppg, 1.20 CFS yield.
TOC estimated ~10700'.

A variance is also requested to wave any centralizer requirements.

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #343482 verified by the BLM Well Information System
For EOG RESOURCES INCORPORATED, sent to the Hobbs
Committed to AFMSS for processing by PRISCILLA PEREZ on 07/06/2016 (16PP0861SE)**

Name (Printed/Typed) STAN WAGNER

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 06/29/2016

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By (BLM Approver Not Specified) Mustafa HagueTitle **PETROLEUM ENGINEER**

Date 07/14/2016

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Hobbs

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ******Accepted for Record Only**MSB/OCD 7/20/2014

**Hawk 26 Fed No. 709H
30-025-42402
EOG Resources, Inc
Surface Location: Sec. 26, T. 24S, R. 33E
Conditions of Approval**

See below for the updated Conditions of Approval for the Drilling Section.

All previous COAs still apply, except for the following :

A. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.).

The initial wellhead installed on the well will remain on the well with spools used as needed.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. **DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE.**

Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Risks:

Possibility of water flows in the Salado and in the Castile.

Possibility of lost circulation in the Red Beds, in the Rustler and in the Delaware.

Abnormal pressures may be encountered upon penetrating the 3rd Bone Spring Sandstone and all subsequent formation.

Variance is granted for centralizers in the production interval per the drilling program.

1. The minimum required fill of cement behind the **5 1/2 X 5** inch production casing is:

☒ Cement should tie-back at least **500** feet into previous casing string. Operator shall provide method of verification.

2. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

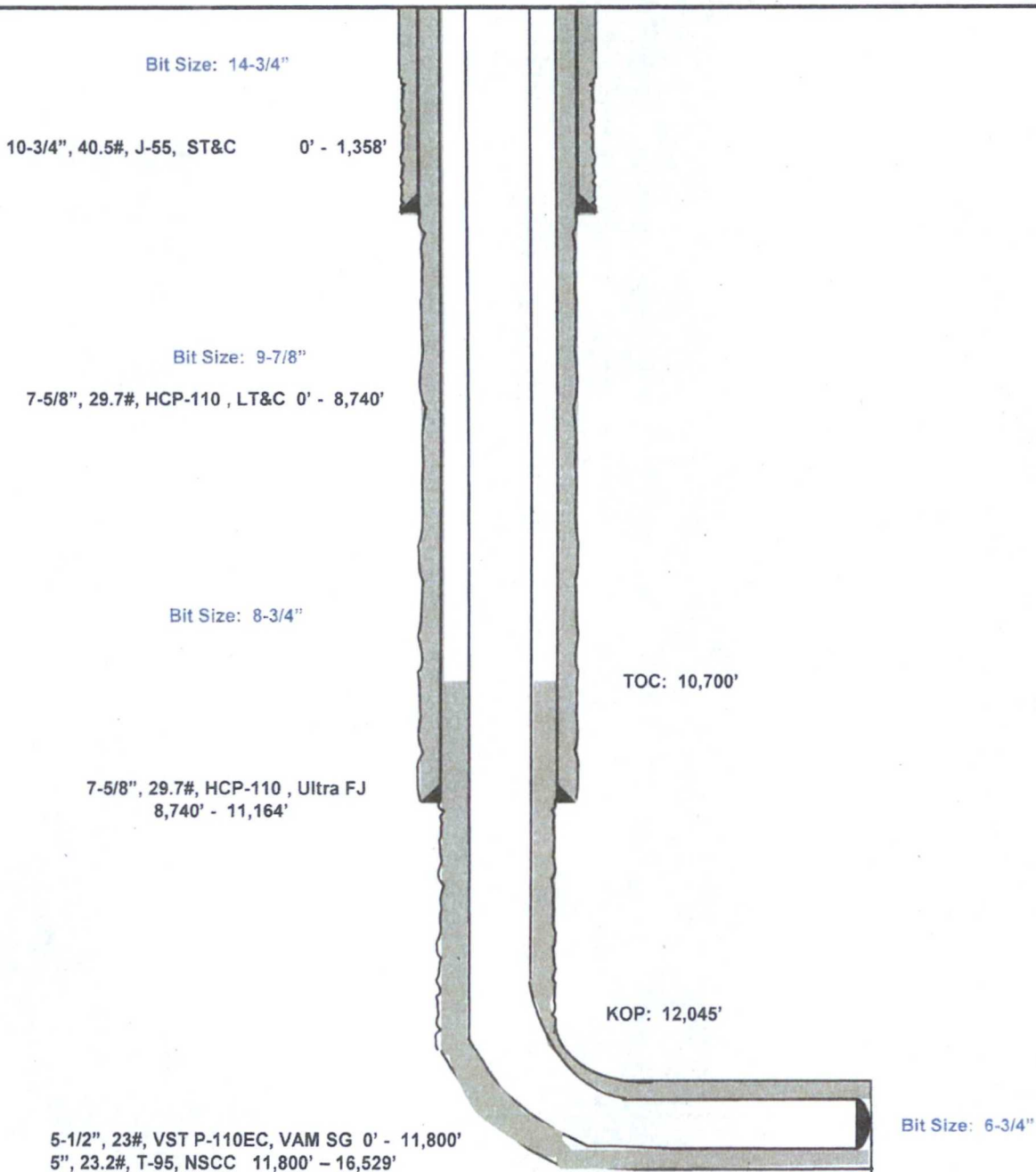
MHH 07142016

Hawk 26 Fed #709H

500' FSL
715' FEL
Section 26
T-24-S, R-33-E

Lea County, New Mexico
Proposed Wellbore
Revised 6/29/16
API: 30-025-42402

KB: 3,568'
GL: 3,538'



Lateral TD:
16,529' MD, 12,562' TVD
Section 35
T-24-S, R-33-E

VAM SG

Connection Data Sheet

O.D (in)	WEIGHT (lb/ft)	WALL (in)	GRADE	DRIFT	CONNECTION
5.500	23.00	0.415	VST P110EC	4.545	VAM® SG

PIPE PROPERTIES

Material Grade	VST P110EC
Min. Yield Strength	125 ksi
Min. Tensile Strength	135 ksi
Nominal OD	5.500 in
Nominal ID	4.670 in
Nominal Area	6.630 sq. in
Yield Strength	829 kips
Ultimate Strength	895 kips
Min Internal Yield	16,510 psi
*High Collapse	16,220 psi

CONNECTION PROPERTIES

Connection OD	5.720 in
Connection ID	4.603 in
Make up Loss	6.503 in
Connection Critical Area	5.967 sq. in
%PB Section Area	90.0%
Yield Strength	746 kips
Parting Load	805 kips
Min Internal Yield	16,510 psi
*High Collapse	11,350 psi
Working Compression	522 kips
Max. Bending w/ Sealability	40 °/100 ft

DOCUMENTATION

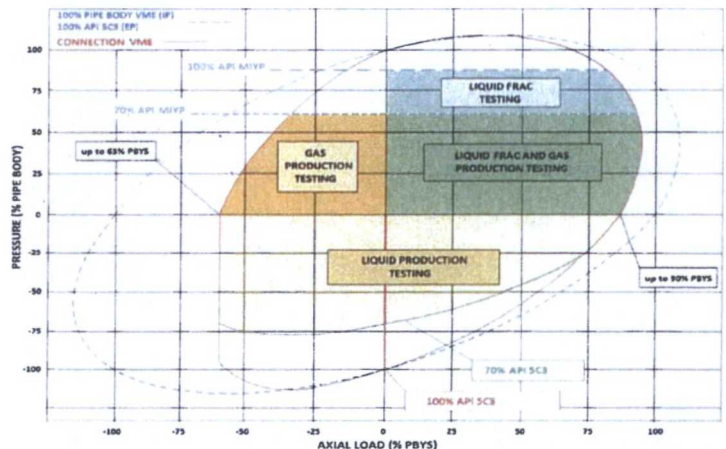
Ref. Drawing	SI-PD 100835 Rev.A
Date	11-Aug-14
Time	1:21 PM
Email	tech.support@vam-usa.com

TORQUE VALUES

Min Make Up Torque	9,100 ft-lb
Opt Make Up Torque	11,200 ft-lb
Max Make Up Torque	13,300 ft-lb
Max Torque w/ Sealability	14,500 ft-lb

The single solution for Shale Play needs

VAM® SG brings VAM® premium sealing performance to a semi-flush connection with extremely high Tension performance and increased Torque capacity, validated to the specific Shale drilling requirements, while remaining highly competitive in North American Shale play economics.



All information is provided by VAM USA or its affiliates at user's sole risk, without liability for loss, damage or injury resulting from the use thereof; and on an "AS IS" basis without warranty or representation of any kind, whether express or implied, including without limitation any warranty of merchantability, fitness for purpose or completeness. This document and its contents are subject to change without notice. In no event shall VAM USA or its affiliates be responsible for any indirect, special, incidental, punitive, exemplary or consequential loss or damage (including without limitation, loss of use, loss of bargain, loss of revenue, profit or anticipated profit) however caused or arising, and whether such losses or damages were foreseeable or VAM USA or its affiliates was advised of the possibility of such damages.

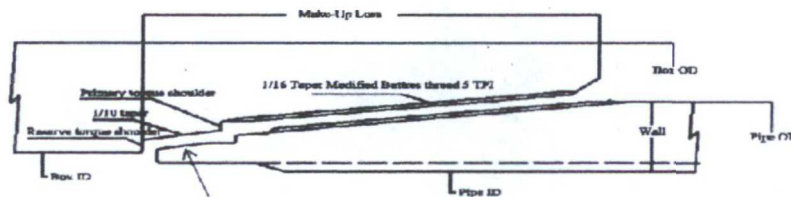
Pipe Description				
Size	Weight	Wall	Grade	Connection
5.000"	23.20#	0.478"	T-95	NS-CC

Performance Properties	
Yield (x 1000 lbs.)	615
Internal Pressure (psi)	15890
Collapse (psi)	16430
Tension (x 1000 lbs.)	659
Compression (x 1000 lbs.)	659

Connection Dimensions	
Pipe ID	4.011"
Pin ID	4.160"
Coupling ID	4.145"
Coupling OD	5.720"
Special Clearance	5.407"
Coupling Length	9.976"
Pin Lc Length	2.008"
Drift Diameter	3.919"

Make-Up				
Torque Min (ft. lbs.)	Torque Opt (ft. lbs.)	Torque Max (ft. lbs.)	MakeUp Loss	MakeUp Speed
4800	5400	6100	4.690"	10 rpm Max

Recommended Thread Compound: API Modified Running Compound,
such as Best-of-Life 72733





GENERAL PRODUCT SHEET

TAMPlug – Permanent Bridge Plug System

PRODUCT DESCRIPTION:

The TAMPlug Permanent Bridge Plug System utilizes a modular design valve sub that can quickly adapt to work with a full complement of TAM element types and sizes. This flexibility enables faster job preparation and timely deployment to the field for a variety of solutions.

PROVIDE SOLUTIONS FOR:

- Open or cased hole zonal isolation
- Permanent bridge plug for abandonments
- Lost circulation zones in harsh environments
- Cement base for sidetracking

FEATURES:

- Pressure balanced element during run in well
- Utilizes field proven TAMCAP valving
- Modular design allows for a variety of elements to be used depending on application
- Integral circulation/fill ports built into the valve sub

BENEFITS:

- Very robust design and shorter overall length enhances deployment in short radius trajectories
- Work string can be set to run dry or set to auto-fill to adapt to different fluids and solids content in the well
- Right-Hand release sub built into the tool
- Vertical or horizontal wells

TOOL SIZES:

4.25 in. OD Setting Head Element Options

Element OD		Element Type	Top Connection
in	mm		(in.)
4.25	108	IE	2.88 EU
4.25	108	SE	2.88 EU
4.25	108	VE	2.88 EU
5.06	129	IE	2.88 EU
5.25	133	SE	2.88 EU
5.25	133	VE	2.88 EU
5.50	140	VE	2.88 EU
6.19	157	IE	2.88 EU
7.00	178	IE	2.88 EU
7.38	187	VE	2.88 EU

5.06 in. OD Setting Head Element Options

Element OD		Element Type	Top Connection
in	mm		(in.)
5.06	129	IE	3.50 IF
5.06	129	IE	3.50 IF
5.25	133	SE	3.50 IF
5.25	133	VE	3.50 IF
5.50	140	IE	3.50 IF
5.50	140	SE	3.50 IF
5.50	140	VE	3.50 IF
7.00	178	IE	3.50 IF
7.38	187	VE	3.50 IF
11.00	279	IE	3.50 IF
11.00	279	VE	3.50 IF
14.56	370	IE	3.50 IF
14.56	370	VE	3.50 IF





Haque, Mustafa <mhaque@blm.gov>

EOG Hawk 26 Fed 709H - Request to T&A wellbore

Bruce Coit <Bruce_Coit@eogresources.com>

Wed, Jun 29, 2016 at 8:46 AM

To: "Walls, Christopher" <cwalls@blm.gov>, Steve Munsell <Steve_Munsell@eogresources.com>

Cc: "Nimmer, Charles" <cnimmer@blm.gov>, "Fernandez, Edward" <efernand@blm.gov>, "Haque, Mustafa" <mhaque@blm.gov>, Stan Wagner <Stan_Wagner@eogresources.com>, Heath Work <Heath_Work@eogresources.com>, Jason Fitzgerald <Jason_Fitzgerald@eogresources.com>

Gentlemen,

EOG requests approval to run Production casing on the Hawk 26 Fed #709H as follows:

5-1/2" 23.0# VST P-110EC VAM SG (0' – 11,800'). Spec sheet attached.

5" 23.2# T-95 NSCC (11,800' – 16,529' TD). Spec sheet attached.

Cemented with 150 bbls +25% excess Class H @ 14.4 ppg, 1.20 yld. TOC @ ~10,700'.

Variance is also requested to wave any centralizer requirements.

Please let us know if you approve, so we can submit a Sundry.

Sincerely,

>>>Bruce Coit
Sr. Engineering Associate
EOG Resources
Office: (432) 686-3702
Mobile: (432) 553-4379
Bruce_Coit@EOGResources.com

From: Walls, Christopher [mailto:cwalls@blm.gov]**Sent:** Tuesday, June 28, 2016 9:13 AM**To:** Steve Munsell**Cc:** Nimmer, Charles; Fernandez, Edward; Haque, Mustafa; Stan Wagner; Bruce Coit; Heath Work; Jason Fitzgerald**Subject:** Re: EOG Hawk 26 Fed 709H - Request to T&A wellbore

** External email. Use caution.**

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2 attachments

 **5 500in 23 00# VST P110EC VAM SG CDS-USA.pdf**
185K

 **5.00 23.2 T-95 NSCC Spec Sheet.pdf**
81K



Haque, Mustafa <mhaque@blm.gov>

EOG Hawk 26 Fed 709H - Request to T&A wellbore

Bruce Coit <Bruce_Coit@eogresources.com>

Thu, Jun 30, 2016 at 2:03 PM

To: "Haque, Mustafa" <mhaque@blm.gov>

Cc: "Walls, Christopher" <cwalls@blm.gov>, Steve Munsell <Steve_Munsell@eogresources.com>, "Nimmer, Charles" <cnimmer@blm.gov>, "Fernandez, Edward" <efernand@blm.gov>, Stan Wagner <Stan_Wagner@eogresources.com>, Heath Work <Heath_Work@eogresources.com>, Jason Fitzgerald <Jason_Fitzgerald@eogresources.com>

Mustafa,

Cement volumes are as follows:

890 sx 50:50 Poz:Class H + 0.25% CPT-503P + 0.6% CPT-16A + 0.2% CPT-35 + 0.4% CPT-49 + 0.55% CPT-24 + 0.55% CPT-29 (14.4 ppg, 1.20 yld).

If returns are lost - WOC for 4 hours and Bradenhead squeeze with:

1700 sx Class C + 0.2% CPT-19 (14.8 ppg, 1.33 yld).

>>>Bruce Coit
Sr. Engineering Associate
EOG Resources
Office: (432) 686-3702
Mobile: (432) 553-4379
Bruce_Coit@EOGResources.com

From: Bruce Coit
Sent: Thursday, June 30, 2016 1:54 PM
To: 'Haque, Mustafa'
Cc: Walls, Christopher; Steve Munsell; Nimmer, Charles; Fernandez, Edward; Stan Wagner; Heath Work; Jason Fitzgerald
Subject: RE: EOG Hawk 26 Fed 709H - Request to T&A wellbore

Gentlemen,

We have set the TAM inflatable packer @ 16,300' MD and are preparing to RIH w/ production casing.

Should we lose returns on the cement job, we like approval to Bradenhead squeeze to assure zonal isolation.

Please let me know if you have questions.

Thanx,

>>>Bruce Coit
Sr. Engineering Associate
EOG Resources
Office: (432) 686-3702
Mobile: (432) 553-4379
Bruce_Coit@EOGResources.com

From: Haque, Mustafa [<mailto:mhaque@blm.gov>]

Sent: Wednesday, June 29, 2016 10:22 AM

To: Bruce Coit

Cc: Walls, Christopher; Steve Munsell; Nimmer, Charles; Fernandez, Edward; Stan Wagner; Heath Work; Jason Fitzgerald

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Haque, Mustafa <mhaque@blm.gov>

EOG Hawk 26 Fed 709H - Request to T&A wellbore

Bruce Coit <Bruce_Coit@eogresources.com>

Thu, Jun 30, 2016 at 12:54 PM

To: "Haque, Mustafa" <mhaque@blm.gov>

Cc: "Walls, Christopher" <cwalls@blm.gov>, Steve Munsell <Steve_Munsell@eogresources.com>, "Nimmer, Charles" <cnimmer@blm.gov>, "Fernandez, Edward" <efernand@blm.gov>, Stan Wagner <Stan_Wagner@eogresources.com>, Heath Work <Heath_Work@eogresources.com>, Jason Fitzgerald <Jason_Fitzgerald@eogresources.com>

Gentlemen,

We have set the TAM inflatable packer @ 16,300' MD and are preparing to RIH w/ production casing.

Should we lose returns on the cement job, we like approval to Bradenhead squeeze to assure zonal isolation.

Please let me know if you have questions.

Thanx,

>>>Bruce Coit
Sr. Engineering Associate
EOG Resources
Office: (432) 686-3702
Mobile: (432) 553-4379
Bruce_Coit@EOGResources.com**From:** Haque, Mustafa [mailto:mhaque@blm.gov]**Sent:** Wednesday, June 29, 2016 10:22 AM**To:** Bruce Coit**Cc:** Walls, Christopher; Steve Munsell; Nimmer, Charles; Fernandez, Edward; Stan Wagner; Heath Work; Jason Fitzgerald

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