

Submitted in lieu of Form 3160-5

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

Farmington Field Office  
Bureau of Land Management

RECEIVED

OCT 22 2015

OIL CONS. DIV DIST. 3

NOV 12 2015

1. Type of Well Gas

2. Name of Operator  
M&G Drilling Company, Inc.

3. Address & Phone No. of Operator  
PO Box 5940, Farmington, NM 87499

Location of Well, Footage, Sec., T, R, M  
990' FSL and 100' FEL, Section 10, T27N, R08W

5. Lease Number  
NMSF-078481A

6. If Indian, All. or  
Tribe Name

7. Unit Agreement Name

8. Well Name & Number  
Graham #53A

9. API Well No.  
30-045-06702

10. Field and Pool  
Blanco Mesaverde

11. County & State  
San Juan, NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment

Type of Action

☒ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☐ Other -

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut off

☐ Conversion to Injection

13. Describe Proposed or Completed Operations

M&G Drilling proposes to plug and abandon this well per the attached plugging procedure in January 2016.

A steel pit will be used to contain fluid circulated from the well and then hauled to an approved disposal facility.

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

Notify NMOCD 24 hrs  
prior to beginning  
operations

BLM'S APPROVAL OR ACCEPTANCE OF THIS  
ACTION DOES NOT RELIEVE THE LESSEE AND  
OPERATOR FROM OBTAINING ANY OTHER  
AUTHORIZATION REQUIRED FOR OPERATIONS  
ON FEDERAL AND INDIAN LANDS

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

Signed Dave Hinson Title Production Foreman Date October 20, 2015

(This space for Federal or State Office use)

APPROVED BY [Signature] Title PE Date 11/9/15  
CONDITION OF APPROVAL, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly 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.

NMOCD

RV



## PLUG AND ABANDONMENT PROCEDURE

October 20, 2015

### Graham #53A

Blanco Mesaverde

990' FSL and 1800' FEL, Section 10, T27N, R08W  
San Juan County, New Mexico / API 30-045-06702

Lat: N / Long: W

Note: All cement volumes use 100% excess outside pipe and 50' excess inside. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be Class B, mixed at 15.6 ppg with a 1.18 cf/sx yield.

1. Install and test location rig anchors. Comply with all NMOCD, BLM, and Operator safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. Record casing, tubing and bradenhead pressures. Conduct and record a BH test blow down. NU relief line and blow down well. Kill well with water as necessary and at least pump tubing capacity of water down the tubing. ND wellhead and NU BOP. Function test BOP. DAILY RECORD THE BRADENHEAD PRESSURE AND THE BLOW DOWN TIME AND FLOW TYPE (water or gas).
2. Rods: Yes ☐ , No ☒ , Unknown ☐ .  
Tubing: Yes ☒ , No ☐ , Unknown ☐ , Size 2-3/8" , Length 4385' .  
Packer: Yes ☒ , No ☐ , Unknown ☐ , Type AD-1 ; Set at 4039' (2008).  
Work tubing to release packer. TOH and LD. Pick up a workstring if tubing in bad condition.
3. Rig up a wireline unit and run a 4" gauge ring into the liner top at 4196' down to 4320'. Set a wireline 4" CIBP at 4300'. TIH with tubing and circulate the wellbore clean with water.
4. **Plug #1 (Mesaverde perforations and top and liner top, 4300' – 3710')**: Load casing with water and circulate well clean. Pressure test casing to 800#. If the casings do not test, then spot or tag subsequent plugs as appropriate. Circulate well clean. Mix 70 sxs Class B cement and spot a balanced plug inside casing above the CIBP up to 3710' to isolate the Mesaverde perforations and cover the liner top. TOH with tubing.
5. Run a CBL from 3700' to surface in the 5.5" casing to determine the TOC in the annulus.  
NOTE: This CBL is required by the BLM when cement was not circulated to surface. This procedure is prepared with the understanding that the following plugs may be modified based on the TOC from the CBL.
6. **Plug #2 (Chacra top, 2850' to 2750')**: TIH with tubing top 2850' and set a balanced 25 sx plug to cover the Chara top. WOC if necessary and tag cement. Round trip 5.5" gauge ring or string mill to 2000'.
7. **Plug #3 (Pictured Cliffs and Fruitland, tops, 2120' to 1760')**: Perforate 3 HSC squeeze holes at 2120'. Establish injection rate. RIH and set CR at 2020'. TIH with tubing and sting into CR. Establish rate. Mix 154 sxs Class B cement, squeeze 106 sxs outside casing and leave 48 sxs inside casing. TOH.

**Graham #53A - Plugging Procedure Continued:**

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8. **Plug #4 (Kirtland and Ojo Alamo tops and 8.625" casing shoe, 1365' to 1100'):** Perforate 3 HSC squeeze holes at 1365'. Establish injection rate. RIH and set CR at 1315'. TIH with tubing and sting into CR. Establish rate. Mix 103 sxs Class B cement, squeeze 66 sxs outside casing and leave 37 sxs inside casing. TOH.
9. **Plug #5 (13.375" Surface casing shoe, 273'to Surface):** Perforate 4 squeeze holes at 273'. Establish circulation out bradenhead with water and circulate the BH annulus clean. Let well sit open for one hour and observe the bradenhead flow if any; discuss procedure modifications as appropriate with the BLM and NMOCD representatives. Mix approximately 280 sxs Class B cement and pump down the 5.5" casing to circulate good cement to surface out both the 5.5" x 8.625" intermediate valve and out the bradenhead valve. Shut in well and WOC.
10. ND cementing valves and cut off wellhead. Fill annuli with cement as necessary. Install P&A marker to comply with regulations. Record GPS coordinate for P&A marker on tower report. Photograph P&A marker in place. RD, MOL and cut off anchors. Restore location per BLM stipulations



# Graham #53A

## Current Wellbore

Blanco Mesaverde

990' FSL, 1785' FEL, Section 10, T-27-N, R-08-W,

San Juan County, NM / API #30-045-06702

Lat \_\_\_\_\_ / Long \_\_\_\_\_

Today's Date: 10/20/15

Spud: 12/10/50

Completed: 4/5/51

Re-completed: 1960

Elevation: 5866' GL

16" hole

13.375" 50# Casing set @ 223'  
Cement with 600 sxs (Circulated to Surface)

TOC Unknown

Ojo Alamo @ 1150'

12.25" hole ?

8.625" 36# Casing set @ 1258'  
Cement with 300 sxs

Kirtland @ 1315'

Fruitland @ 1810'

Pictured Cliffs @ 2070'

TOC Unknown

Chacra @ 2800' (Estimate)

2.375" Tubing set at 4385'  
with AD1 Packer at 4039'

Mesaverde @ 3760'

TOL @ 4196'

7.875" hole

5.5" 17 & 14# Casing set @ 4375'  
Cement with 220 sxs

MV Perforations: 4355' to 4440' (1960)

Open Hole Interval  
Stimulated with 720 Quarts  
Nitro in 1951

4" Liner set and cemented  
in 1960, No details.

Open Hole TD 4530' (1950)

# Graham #53A

## Proposed Plugged Well

Blanco Mesaverde

990' FSL, 1785' FEL, Section 10, T-27-N, R-08-W,

San Juan County, NM / API #30-045-06702

Lat \_\_\_\_\_ / Long \_\_\_\_\_

Today's Date: 10/20/15

Spud: 12/10/50

Completed: 4/5/51

Re-completed: 1960

Elevation: 5866' GL

Ojo Alamo @ 1150'

Kirtland @ 1315'

Fruitland @ 1810'

Pictured Cliffs @ 2070'

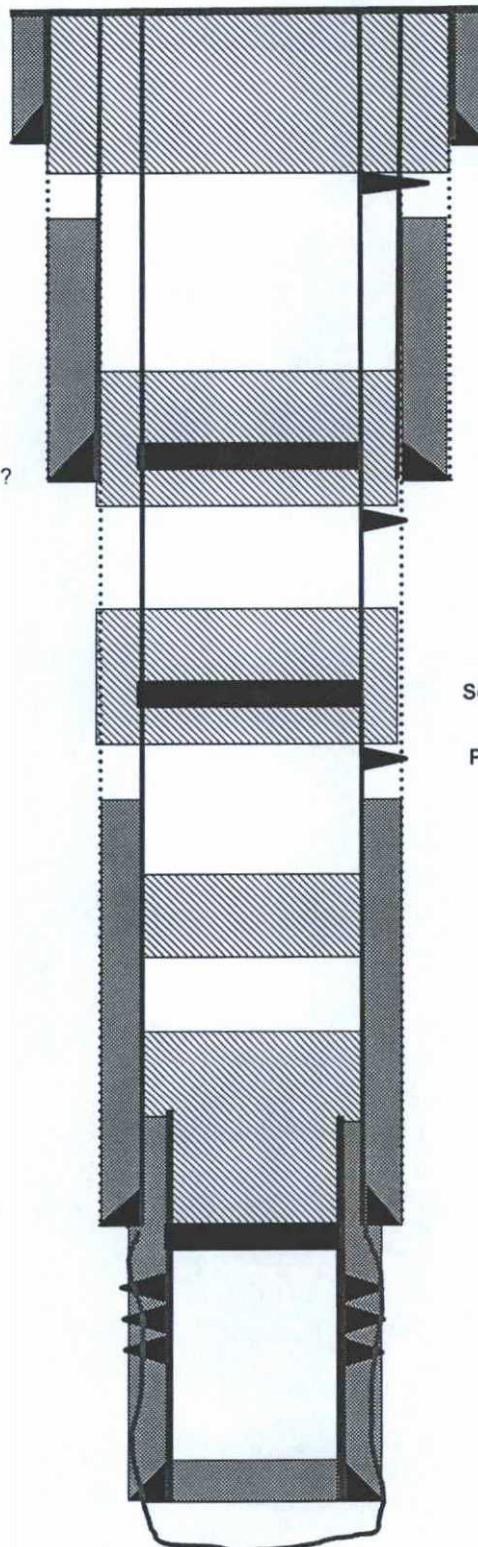
Chacra @ 2800' (Estimate)

Mesaverde @ 3760'

16" hole

12.25" hole ?

7.875" hole



Plug #5: 273' to Surface  
Class B cement, 280 sxs

13.375" 50# Casing set @ 223'  
Cement with 600 sxs (Circulated to Surface)

Perforate @ 273'

TOC Unknown

Plug #4: 1365' to 1100'  
Class B cement, 103 sxs;  
66 sxs outside casing  
and 37 sxs inside.

Set CR @ 1315'

8.625" 36# Casing set @ 1258'  
Cement with 300 sxs

Perforate @ 1365'

Plug #3: 2120' to 1760'  
Class B cement, 154 sxs;  
106 sxs outside casing  
and 48 sxs inside.

Set CR @ 2020'

Perforate @ 2120'

TOC Unknown

Plug #2: 2850' to 2750'  
Class B cement, 25 sxs  
(excess due to csg leak)

Plug #1: 4200' to 3710'  
Class B cement, 70 sxs

TOL @ 4196'

Set 4" CIBP @ 4300'

5.5" 17 & 14# Casing set @ 4375'  
Cement with 220 sxs (1950)

MV Perforations: 4355' to 4440' (1960)

4" Liner set at unknown depth and  
cemented in 1960, No details available.

Open Hole TD 4530' (1950)



UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
FARMINGTON DISTRICT OFFICE  
6251 COLLEGE BLVD.  
FARMINGTON, NEW MEXICO 87402

Attachment to notice of  
Intention to Abandon:

Re: Permanent Abandonment  
Well: Graham #53A

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
2. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 564-7750.
3. The following modifications to your plugging program are to be made:

- a) Set plug #2 (3078-2978) ft. inside/outside to cover the Chacra top. BLM picks top of Chacra at 3028 ft.

H<sub>2</sub>S has not been reported in this section, however, low concentrations of H<sub>2</sub>S (10 ppm – 14 ppm GSV) have been reported in wells within a 1 mile radius of this location.

Operator will run a CBL to verify cement top. Submit the electronic copy of the log for verification to the following addresses: [jwsavage@blm.gov](mailto:jwsavage@blm.gov) [tsalyers@blm.gov](mailto:tsalyers@blm.gov) [Brandon.Powell@state.nm.us](mailto:Brandon.Powell@state.nm.us)

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.