

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS **SEP 26 2014**

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

**SUBMIT IN TRIPLICATE – Other instructions on reverse side**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

**Hallador Petroleum, LLP** c/o Walsh Engineering

3a. Address

7415 E. Main, Farmington, NM, 87402

3b. Phone No. (include area code)

505-327-4892

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

1850' FNL and 1690' FEL, Sec. 7, T31N, R11W

5. Lease Serial No.

SF 078095A

6. If Indian, Allottee or Tribe Name

**OIL CONS. DIV DIST. 3**

7. If Unit or C/A Agreement, Name and/or No.

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8. Well Name and No.

Horton #1A

9. API Well No.

30-045-21955

10. Field and Pool, or Exploratory Area

Basin DK & Blanco MV

11. County or Parish, State

San Juan County, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operations (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 recomplete 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 recompletion 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.)

Hallador Petroleum, LLP proposes to plug and abandon this well according to the attached procedure.

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL



**H<sub>2</sub>S POTENTIAL EXIST**

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

Name (Printed/Typed)

Paul C. Thompson, P.E.

Title

Agent / Engineer

Signature

*Paul C. Thompson*

Date

September 17, 2014

THIS SPACE FOR FEDERAL OR STATE USE

Approved by

*Troy Salvers*

Title

PE

Date

10/16/2014

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

FFO

Title 18 U.S.C. Section 1001, 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.



**WALSH**

ENGINEERING &amp; PRODUCTION CORP.

Petroleum Engineering Consulting  
Lease Management  
Contract Pumping7415 East Main  
Farmington, New Mexico 87402  
(505) 327-4892 • Fax: (505) 327-9834

## Walsh Engineering and Production

P & A Procedure for  
Hallador Petroleum, LLP  
Horton #1ALocation: NE/4 Sec 7 T31N R11W  
San Juan Co., NM  
API: 30-045-21955

Date: September 17, 2014

Field: Basin DK & Blanco MV  
Surface: BLM  
Minerals: Fed SF - 078095A  
DK Perfs: 7305' - 7486'Elev: GL 6256', 6268' KB  
5-1/2" @ 2902' - 7517' KB  
PBTD: 7499' KB  
MV Perfs: 4394' - 5408'**Procedure:**

1. Move on location and rig up a well service unit. Hold a safety meeting and explain the procedure to the crew. Set and fill one 400 bbl frac tank with fresh water and spot a round bottom cuttings bin.
2. Nipple down the well head and nipple up the BOP. Tally out with approximately 222 jts of 2-3/8" tubing. There is 1/4" coiled tubing banded to the outside of the tubing. Note: one of the joints may have perforations at approximately 4900'.
3. Pick up a 5-1/2" casing scrapper on 2-3/8" tubing and TIH to PBTD at 7499' KB. TOH and lay down the scrapper.
4. Pick up a 5-1/2" CICR on 2-3/8" tubing and set it at approximately 7190' (Greenhorn top). Load and pressure test the tubing to 1,000 psi. Sting into the retainer and establish an injection rate into the Dakota perfs with water. **Plug #1:** Mix and pump 35 sx (41.3 cu.ft.) of neat cement below the CICR, pull out of the retainer and leave an additional 6 sx (7.1 cu.ft.) of neat cement above the retainer. Top of cement will be approximately 7135' KB or 50' above the Greenhorn top. POH above the cement and flush the tubing clean with 30 bbls of water. Finish TOH and lay down the setting tool.





5. Pick up a 5-1/2" CICR on 2-3/8" tubing and set it at approximately 4340' (54' above the top Mesa Verde perf). Load and pressure test the tubing to 1,000 psi. TOH and load the casing with water. Pressure test the casing to 500 psi. Sting into the retainer and establish an injection rate into the Mesa Verde perfs with water. **Plug #2:** Mix and pump 120 sx (141.6 cu.ft.) of neat cement below the CICR, pull out of the retainer and leave an additional 6 sx (7.1 cu.ft.) of neat cement above the retainer. Top of cement will be approximately 4290' KB or 100' above the top Cliff House perf. POH above the cement and reverse circulate the tubing clean. Finish TOH and lay down the setting tool.
6. TIH open ended with the 2-3/8" tubing to 2904' KB (50' below the Pictured Cliffs top). **Plug #3:** Spot a balanced plug with 90 sx (106.2 cu.ft.) of neat cement to cover the Fruitland top at 2554' plus 50'. POH above the cement and reverse circulate the tubing clean. POH to 2122' KB.
7. **Plug #4:** Spot a balanced plug with 35 sx (41.3 cu.ft.) of neat cement to cover the Ojo Alamo top at 2122' +/- 50' plus 50'. POH above the cement and reverse circulate the tubing clean. TOH and lay down all of the tubing.
8. Perforate two squeeze holes at 235'.
9. **Surface Plug:** Connect the pump truck directly to the 7-5/8" casing and establish circulation through the squeeze holes and out the bradenhead valve. Cement with 100 sx (118 cu.ft.) of neat cement or until good cement is circulated through the bradenhead valve. Leave the casing full of cement.
10. Cut the wellhead off 4' below the ground level. Install a dryhole marker with a weep hole. Remove the anchors and all of the surface production equipment including the meter. Reclaim location as per surface owner specifications.

Paul C. Thompson

Paul C. Thompson, P.E.



GL - 6256  
KB - 6268

OIL CONS. DIV DIST. 3

OCT 20 2014

CURRENT STATUS

Pg A STATUS

15" HOLE

9 7/8" Hole

DA - 2072

K - 2192

FTC - 2554

PC - 2854

6 3/4" HOLE

CH -4451

MEH 4674

PL 5090

GH 7191

GR 7244

DK 7389

10<sup>3/4</sup>, 40.5<sup>#</sup> C 185  
CMT TO SURFACE  
WITH 150SK

DV TOOL @ 2/19'

2 3/8" TBL @ 7303  
222 JTS w/ 1/4" CT

LINER TOP - 2902

7 5/8", 26.4 @ 3100'  
CMT w/ 215 SK \$  
250 + 30 SK. TOC ~ 313'

CH PERFS 4394-4658

MEN PERFS 480Z-5054'

PL PERFS 5091-5408'

DK PERFS 7305-7485

PBTD - 7499'

5 1/2", 15.5" # 17.0" @ 7517"  
CMT TO LIMER TOP  
W/ 6255K

SURFACE PLUG  
100 SX

SQUEEZE HOLES @ 235

2022 Peng Hai (OA)

2122 355x

2504  
PLUG #3 (PC-ETC)  
90 SX

2904

4290  
CICR @ 4340

Pull #2 (mv)  
 120 SK BEDD CR  
 5 SK 20 TOP

5408

7135  
CICR @ 7190

PLUG #1 (DK)  
35% BELOW CCR  
5% ON TOP

75  
9/17/42



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: Horton #1A

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Leases."
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) Place an inside plug from (6524-6424) ft. to cover the Gallup top.
  - b) Place an inside plug from (5640-5540) ft. to cover the Mancos top.
  - c) Place an inside plug from (3595-3495) ft. to cover the Chacra top.
  - d) Bring the top of plug #3 to 2358 ft. to cover the Fruitland top. Adjust cement volume accordingly.

Note: H<sub>2</sub>S have been reported in this section; however, high concentrations of H<sub>2</sub>S (380ppm GSV) have been reported at the Case B #2 well located in the SW/SW of section 8,31N,11W. It is imperative that H<sub>2</sub>S monitoring and safety equipment be on location during the plugging operations at this wellsite.

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.