

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

5. Lease Serial No.

SF-078095A

6. If Indian, Allottee or Tribe Name

NA

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

NA

8. Well Name and No.

Horton #1

9. API Well No.

30-045-10841

10. Field and Pool, or Exploratory Area

Blanco Mesaverde

11. County or Parish, State

San Juan County, NM

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Hallador Petroleum, LLP

3a. Address

1660 Lincoln St., Suite 2700, Denver, CO 80264

3b. Phone No. (include area code)

303 839-5504

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

990 feet fwl and 790 feet fsl Section 7, T31N, R11W

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input 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 checked="" 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 recompleat 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 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.)

See attached workover and abandonment history.

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Timothy Lovseth

Title

Manager of Exploration and Geology

Signature

Date

November 29, 2000

THIS SPACE FOR FEDERAL OR STATE USE

Approved by

Title

Date

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

FILED FOR RECORD

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.

Workover and Abandonment History

Hallador Petroleum, LLP
Horton #1, Mesa Verde Well
Section 7, T31N-R11W
San Juan County, NM

- 10/11/00 Level rig on location, dig out wellhead to expose the 10 3/4" surface casing. Well has 115 psi on the 2 3/8" tbg, 5 1/2" casing and the 10 3/4" surface. Attempt to blow well down. Unable to open either 3" valve on the 5 1/2" casing or the 10 3/4" casing. Release rig crew at 3:00 PM. Pump, Tank and BOE to be delivered this evening. Will install Rig Anchors at 7:30 AM Oct. 12th. Purchased 3-2" 750 psi valves and 1-3" collar to replace 3" well head valves.
- 10/12/00 Kill well by pumping down 2 3/8" tubing with 35 bbls 2% KCL and down 10 3/4" through a 1" valve with 30 bbls of 2% KCL. Casing and tubing annulus's dead. Install new 2" valves on the 10 3/4", 5 1/2" and on the wellhead. Remove 6" 1,000 psi flange and attempt to release tubing "donut". Cannot undo setscrews to release tubing. Weatherford delivers 11"- 1000 psi flange to flange up to our 10" - 400 psi flange. Pull first joint of tubing and strip on 11" flange. Install 9" by 7 1/16", 7 1/16" spool and BOE. Trucked in 80 bbls 2% KCL. Pull 29 stands of 2 3/8" tubing. Secure well and shut down for night at 6:00 PM.
- 10/13/00 Continue to pull 2 3/8" tubing. A total of 161 joints of 2 3/8" tubing. Lay down 25 joints (530' of 2" line pipe). Line pipes 11 1/2 "V" threads are corroded. Pipe can be used for future construction. Run in hole with 4 3/4" bit and Scraper to 4,600'. Pull out of the hole. Lay down 112 joints of 2 3/8" tubing, all with excessive thread loss and/or holes in the body of the pipe. There is 1,500' of 2 3/8" from the bottom of the well that appears to be in adequate condition and will be installed on the top of the new tubing string. Receive 108 joints (3,476') of J-55, 4.7#/ft new 2 3/8" tubing and 530' of 2 1/16" J-55 IJ tubing. Pick up Baker Retrievable Bridge plug and run with 108 joints of 2 3/8" tubing.
- 10/14/00 Continue into hole with 2 3/8" tubing and Baker Retrievable Bridge Plug, set at 4,600'. Pull out and run 5 1/2" Baker Full-Bore Packer and set at 1,400'. Fill casing with 73 bbls 2% KCL and pressure test casing to 1,500 psi. Pull 630' of tubing to 770' and pressure casing to 1,500 psi, pull 590' of tubing and set Packer at 180', pressure casing to 1,500 psi. Set packer at 25' and pressure to 500 psi. Casing integrity okay.

- 10/16/00 Dump 5 gallons of sand on top of Baker Bridge plug at 4,567'. Pull bailer and run in and perforate 2 holes at 3,800'. Notified BLM of squeeze at 8:30 AM. Run in with Baker Full-Bore on 2 3/8" and set at 3,546'. Establish pump rate of 1.7 bpm at 500 psi. No returns to surface. Pump in total of 135 bbls of 2% KCL. Fill annulus with 45 bbls. Establish rate down tubing pump 590 sks. Class "H" w/2% Sodium Metasilicate at 12.5 ppg, 2.08 yield/cu.ft. 11.8 gal/sack mixed with 165.7 bbls water. Followed by 50 sks Class "H" w/2% CaCl₂, at 15.6 ppg, and 1.18 yield. Shut down, wash lines and begin displacement down tubing. Pump 15 bbls, begin hesitation, wait 10 minutes, pump 2 bbls down tubing, shut down and shut in tubing with 75 psi on tubing. No fluid returns to surface or pressure increase while pumping (i.e.: no pressure increase to indicate cement being lifted towards surface).
- 10/17/00 Pressure test squeeze holes at 3,800' with rig pump to 1,000 psi. Holds pressure for a minute and then drops off. Pump at 1/2 bbl/minute at 500 psi. Pull Baker Full-Bore on 2 3/8" tubing and reset at 3,246'. Rig American Energy Services and establish pump rate of 2.0 bpm at 1,000 psi. Mix and pump 50 sks. Neat cement, close unloader, wash pumps and lines, displace with 22 bbls water. Shut down for 15 minutes. Pump 3/4 bbl at 1,400 psi. Wait 15 minutes, cement pressured up at 1,100 psi. Rig down equipment.
- 10/18/00 Pull Baker Full-Bore from 3,246'. Pickup Drag bit, Scraper, 4-3 1/2" Drill Collars and 2 3/8" tubing and drill out hard cement from 3,660 to 3,800'. Bit falls through, pickup one joint. Pull out and lay down Drill collars. Run Baker 3 7/8" Retrieving Tool, run in to 4,450'. Hit cement, circulate and rotate for 20'. Pull Retrieving tool.
- 10/19/00 Pickup Drag bit and Scraper on 2 3/8" tubing and drill out hard cement from 3,901' to 4,410'. Bit falls through, continue into hole to top of Baker Retrievable Bridge plug at 4,567'.
- 10/20/00 Pull out of hole and lay down bit and scraper. Run Retrieving Tool, latch on to the Retrievable Bridge plug at 4,567'. Attempt to release with no success. Swab 80 bbls fluid, attempt to release Bridge plug, no success. Will swab remaining 20 bbls in AM.
- 10/21/00 Continue to swab remaining 20 bbls fluid, release Baker Retrievable Bridge Plug and pull out of hole. Cement on bottom of Bridge Plug. Run 4 3/4" bit, Baker Oil Tool changeover from regular API to 2 3/8" EUE and 4,567' of tubing. Drill one foot of hard cement. Pull and lay down 2 joints of tubing.

10/22/00	No Activity.
10/23/00	Begin to rig down, tear out pump and tank. Remove rental flanges and BOE. Receive orders to P&A well. Pull and lay down 50 joints of 2-2/8" tubing. Stand remainder in derrick. Truck back rental equipment.
10/24/00	Remove wellhead and BOE. Pickup 5-1/2" casing spear, pull 110,000 # to release slip, work pipe for one hour. Gain 2" of stretch only. Pipe free to 500". Wait on wireline truck to run casing bond log, log well from 4,500' to 2,800'. Log indicates good bond from 4,500' to 3,750'. Pipe not cemented from 3,750' to surface. Run 2-3/8" tubing in open-ended to 4,430'. Break circulation with fresh water. Mix and pump 20 sks neat cement balance plug. Displace tubing with 15 bbls fresh water. Pull and lay down 51 joints tubing. Jimmy Morris BLM witnessed plug.
10/25/00	Pull and stand back 2900' of tubing. Rig Basin Wireline and perforate 2 holes at 2,948'. Pickup and run 5-1/2" Baker Cast Iron Cement Retainer and set at 2,890'. Run 2-3/8" tubing, space out, establish circulation, sting in CICR and establish pumping rate. Mix and pump 297 cu. ft. cement, displace tubing with 4.0 bbls fresh water, sting out of CICR. Pull 600' of tubing. Displace tubing with 6 bbls of water. Left 500' plug (57 cu. ft.) above the CICR and 240 cu. ft. outside of the 5-1/2" casing. Pull remainder of tubing. Rig Basin Wireline and perforate 2 holes at 1,338'. Pickup and run 5-1/2" Baker Cast Iron Cement Retainer and set at 1,280. Run 2-3/8' tubing, space out, establish circulation, sting into CICR and establish pumping rate. Mix and pump 76 cu. ft. cement, sting out of CICR. Pull 300' of tubing. Displace tubing with 3 bbls. water. Left 200' plug (23 cu. ft.) above the CICR and 53 cu. ft. outside of 5-1/2" casing. Pull remainder of the tubing. Rig Basin Wireline and perforate 2 holes at 218' Pump 135 sks cement down 5-1/2" casing and circulate up 10-3/4" by 5-1/2" annulus. Excellent returns throughout. Three to 4 bbls cement returns. Wait 2 hrs. and top off both. Release cement equipment and tear out Production Rig and equipment. Jimmy Morris BLM witnessed plugging.