

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.

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

5. Lease Serial No.
SFO 78146A

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
Horton #12

9. API Well No.
30-045-24518-00S1

10. Field and Pool, or Exploratory Area
Blanco-Pictured Cliffs

11. County or Parish, State
San Juan County, New Mexico

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 Street, Suite 2700
Denver, CO 80264

3b. Phone No. (include area code)
303/839-5504

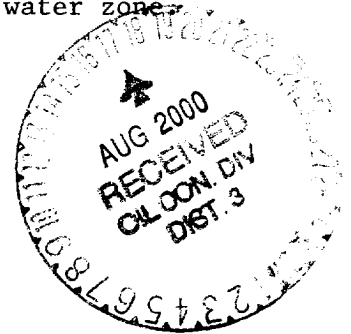
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1120 fsl & 1120 fw1 SWSW
Sec 27, T32N, R12W

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 checked="" 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 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 recomplate 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 recomplate 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.)

See attached well history for details on cementing Ojo Alamo fresh water zone.



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

Name (Printed/Typed)

Timothy Lovseth

Title

Manager of Exploration & Geology

Signature

Date

7/26/00

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

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.

(Instructions on reverse)

ACCEPTED FOR RECORD

AUG 14 2000

MOCD

OFFICE

Drilling History
Horton #12
API # 30-045-24518-00S1
San Juan County, New Mexico
Section 27, T32N, R12W

- 6/30/00 Rig up. Waiting on BOP and Circ Unit from Horton 2B.
- 7/1/00 Pump 3 bbl 2% KCL water down surface casing to remove split nipple and bad valve. Flowed to pit and did not die. Pump 5 bbls down surface, replaced nipple and valve. Pump 5 bbls 2% KCL down tubing and 5 bbls down 4.5" casing. Well dead. Rig up 3000# BOP. Remove tubing hanger and pull 81 joints 2 3/8" 4.7# J-55 tubing. Rig up Halliburton and run gauge ring to 1150'. Ran Halliburton tubing retrievable packer and set at 1090, casing collar at 1102'. Ran dump bailer and dumped two sacks of sand on packer. Pumped casing full water and pressured test packer and casing to 1250 psi OK. Ran perf gun to shoot four holes at 1000'. Gun did not fire due to wet head. Dressed gun and ran to 1000', shot four holes. Rig down Halliburton. Pumped into location 6 bbls per minute at 375 psi slight blow on surface casing did not increase, pumped total 15 bbls. Closed well in and shut down for night.
- 7/2/00 Pick up Halliburton RTTS packer and trip in with 31 joints 2 3/8" tubing. Set packer at 955' KB. Pump 3 bbls KCL water down tubing got good returns on surface casing. Rig up Schlumberger test pump, lines and casing to 1100 # with packer set. 9:58 start cement. Pumped total 55.64 bbls 11.83-weight cement. Good returns on surface casing until pump started missing Schlumberger pump stopped pumping cement. Tried to prime up with fresh water, would pump water 6 bbls per minute would not pump cement. Shut down and check triplex pump, found one poor suction valve and one bad discharge valve. Shut down and wait on Schlumberger to send Pump Truck from Farmington. Pump 6.5 bbls KCL water down tubing. With rig pump max press 375 psi dropped to 250 psi after started cement to moving. Shut down first truck at 10:34 hours. Rig up second truck and start cement at 12:31. At 12:58, both pumps on second Truck stopped moving cement. Tried to prime up with water. Would pump water but not cement. Started displacing with fresh water at 13:34 hours. Pumped total 4 bbls down tubing to just below packer. 3.69 bbls for tubing and .79 bbls to perfs 979 psi instant shut in. 906 # in 1 minute and 425 psi in 30 minutes. Rig down Schlumberger and Halliburton. Shut well in until 03 July 00. Note: Total 82 sacks pumped or 38 bbls, of which 4 bbls were squeezed out perfs.

7/4/00

Release Halliburton RTTS packer and pull tubing and packer. Two joints tubing and packer plugged with cement. Ran 3 7/8" 3 Blade Bit to drill out cement. 10-3 1/8 OD drill collars and 2 3/8" tubing check cement at 955' KB. Drill very Rattie cement to 1010'. Checked sand to 4.5" casing at 1070' KB. Pick up and circulate. Hole clean. Test squeezed. Perforations 1000' with 500 psi for 10 minute OK. No leak off. TOO H with tubing drill collars and 3 7/8" bit. Rig up Halliburton Wire Line Services and run CBL. Fair bond from 1070' to 596'. Ran 1' squeeze gun shot 4 (1/2") holes at 548'. Ran Halliburton Tension packer and set at 472' KB. Rig up rig pump and pump down tubing, cut surface casing 3 bpm at 300 psi. Rig up Schlumberger and pump 2 bbls fresh water ahead and 34 sacks Class B cement, with D24 Gilsonite, D79 Chemical Extender, 2% Calcium Chloride, D46 Antifoam agent, D29 Celloflakes, 2.6 yield, 14.8 gals/ sack fresh water. While mixing and displacing pressure started to increase. Gradually with lift and returns stopped with tubing full cement. Pressure 1497 psi. Displaced cement with 3.25 bbls fresh water 1500 lbs. Shut well in with 1500 psi. Dropped to 1000 lbs. in 3 minutes. Estimated 394' fill to 204' KB, as per 7 7/8' hole. Rig down Schlumberger. Shut in for night and shut down for July 04.

7/6/00

TOOH with Halliburton packer. Ran 3 7/8" bit, 10-3 1/8" DC, on 2 3/8" tubing. Set down on cement at 548'. Rig up Power Swivel and circulate equipment. Drilled 4' cement to 552' ran free to top of sand at 1070'. Circulate hole clean. Test casing to 500 psi for 15 minutes, held OK. TOO H with tubing, DC and Bit laid down Drill collar. TIH with Ret Head. Circulate rest of sand off Ret. Bridge plug open bypass and released BP. Well started unloading and flowed water and gas from 16:00 to 18:30. While well-flowed dug out around Braden Head removed hammer nut on surface head removed steel plates and rubber packing clean up and installed bottom rings, rubber gasket and beaver rings. Oiled hammer nut and tighten up very tight. Removed line pipe nipple from Braden Head and installed heavy nipple, valve and tapped bull plug and needle valve. Plan to pump water down casing and tubing. TIH with tubing. Swab if necessary and move to Horton #2B. Note: flowed estimated 15 bbls water out tubing and 1 bbl out casing.

7/7/00

Casing zero. Tubing 150 # opened to pit let pressure bleed off, well dead. TOO H with tubing, lay down DC and Ret BP. Ran one joint 2 3/8" tubing. Setting nipple 1 25/32" joint and 80 joints 2 3/8" 4.7 # J-55 tubing. End of tubing at 2508' KB. Land tubing and nipple down BOP, swabbed 12 runs to seating nipple until well started unloading. Flowed 2.5 hours on 2" open line to pit. Flowing 1" stream of water and fair continues gas flow. Called pumper OK to shut in and will open 7/7/00. Rig down.