

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

OCT 06 2016

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2014

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.

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other Water Disposal Well

2. Name of Operator
Running Horse Production Company

3a. Address
PO Box 369 14933 Hwy 172
Ignacio, CO 81137

3b. Phone No. (include area code)
970-563-5152

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1750' FSL, 790' FEL, Section 8 T260N, R12W

5. Lease Serial No.
NMSF-080008

6. If Indian, Allottee or Tribe Name
Navajo Indian Tribe

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

8. Well Name and No.
Frontier A #1

9. API Well No.
#30-045-05919

10. Field and Pool or Exploratory Area
Gallegos Wash, Farmington, West

11. County or Parish, State
San Juan County, NM

12. CHECK THE 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 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 recompleate 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 must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

The Frontier A #1 was plugged and abandoned on 8/25/16 per the attached plug and abandonment summary provided by A-Plus Well Servicing Inc.

ACCEPTED FOR RECORD

OCT 07 2016

FARMINGTON FIELD OFFICE
BY: 

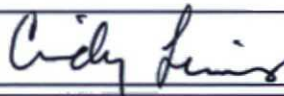
OIL CONS. DIV DIST. 3
OCT 12 2016

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

Cindy Lewis

Title Senior Petroleum Engineer

Signature



Date

9/27/16

THIS SPACE FOR FEDERAL OR STATE OFFICE 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 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.

(Instructions on page 2)

NMOCD

COPY 4

A-PLUS WELL SERVICE, INC.

P.O. BOX 1979

Farmington, New Mexico 87499

505-325-2627 *fax: 505-325-1211

Running Horse Production Company

Frontier A #1

August 25, 2016

Page 1 of 2

1750' FSL and 790' FEL, Section 8, T-26-N, R-12-W

San Juan County, NM

Lease Number: NMSF-080008

API #30-045-05919

Plug and Abandonment Report

Notified NMOCD and BLM on 8/17/16

Plug and Abandonment Summary:

- Plug #1** with 24 sxs (28.32 cf) Class B cement from 3986' to 3775' to cover the 7.625 shoe and Mancos top.
- Plug #2** with 36 sxs (42.48 cf) Class B cement from 3670' to 3510' to cover the Point Lookout perms.
- Plug #3** with 36 sxs (42.48 cf) Class B cement from 2074' to 1916' to cover the Mesaverde top.
- Plug #4** with squeeze holes at 1509' spot 48 sxs (56.64 cf) Class B cement from 1559' to 1346' to cover the Chacra top. Tag TOC at 1368'.
- Plug #5** with squeeze holes at 1195' spot 93 sxs (109.74 cf) Class B cement from 1195' to 150' displace with 2.5 bbls to 822' POH with tubing load casing with 3.5 bbls squeeze cement with 9 bbls squeeze 37 sxs left 56 sxs inside to cover the Pictured Cliffs top. Tag TOC at 1010'.
- Plug #6** with CR at 880' spot 71 sxs (83.78 cf) Class B cement from 924' to 774' squeeze 37 sxs outside, 10 sxs below CR, leaving 23 sxs on top of CR to cover the Fruitland top.
- Plug #7** with 99 sxs (116.82 cf) Class B cement circulate good cement out 7-5/8" casing to cover the surface casing shoe.
- Plug #8** with 32 sxs Class B cement top off casings and install P&A Marker with coordinates 36° 30' 1" N / 108° 7' 43" W.

Plugging Work Details:

- 8/19/16 Rode rig and equipment to location. Spot in and RU. Check well pressures: tubing and bradenhead 0 PSI, casing 15 PSI. Pump 26 bbls of water down tubing, establish rate of 4 bpm at 1200 PSI. ND the wellhead (Note: Bolts and nuts rusted up). Pump 26 bbls down the tubing to flush and clear. Strip on BOP, very light water flow over tubing. Attempt to release the packer, work packer down 20'. Light water flow up casing and tubing. Begin to pull packer dragging and pulling to 48,000# and back to 20,000#. Pulled back to original starting point, packer stuck again. Pulled to 35,000# and set on the slips. SDFD.
- 8/22/16 Travel to location. Open up well; no pressures, flowing 1/2" stream of water out 2-3/8" tubing. Work packer unable to release, torque up then give torque back, unable to move tubing. Pump 20 bbls water down tubing, casing would start flowing 1/2" stream, work packer. No progress, decide to use power swivel. Work packer while waiting on power swivel. RU power swivel start turning swivel and tubing to right and working up and down. Packer released, freed up, LD 4 jnt with swivel. RD swivel. PU tongs LD and tally 112 jnts 2-3/8" EUE plastic lined tubing, total tally 3572', SN and 7-5/8" loc-set packer. Swap out floats. Stop job and wait out rain storm to pass. Prep and tally 126 jnts 2-3/8" A-Plus workstring, EOT 3986'. Pump 30 bbls ahead. Spot plug #1 with calculated TOC at 3775'. SI well. SDFD.

A-PLUS WELL SERVICE, INC.

P.O. BOX 1979

Farmington, New Mexico 87499

505-325-2627 *fax: 505-325-1211

Running Horse Production Company
Frontier A #1

August 25, 2016
Page 2 of 2

Plugging Work Details (continued):

- 8/23/16 Travel to location. Open up well; no pressures. TIH and tag TOC at 3826'. RU A-Plus wireline. RIH with 7-5/8" CIBP and set at 3670'. POH. PU 1-4' plugging sub, TIH with 58 stands, tag 7-5/8" CIBP at 3670'. Circulate well clean. Attempt to pressure test 7-5/8" casing, ring gasket leaking. RU A-Plus wireline. Ran CBL from 3670' to surface, with estimated TOC at 2024'. Send in for review. Use tubing hanger to pressure test 7-5/8" to 800 PSI, OK. TIH to 3670'. Spot plug #2 with calculated TOC at 3510'. Note: Ray Espinoza, BLM approved plug. Wait on BLM orders. SI well. SDFD.
- 8/24/16 Travel to location. Open up well; no pressures. Pressure test bradenhead to 300 PSI, OK. Received order from BLM and NMOCD. Spot plug #3 with calculated TOC at 1916'. RU A-Plus wireline. Perforate 3 HSC squeeze holes at 1509'. Attempt to establish rate into squeeze holes pump 6 bbls pressured up to 1000 PSI, no bled off 3 times. Note: Bill Diers, BLM requiring inside plug and WOC. Spot plug #4 with calculated TOC at 1346'. SI well and WOC. TIH and tag TOC at 1368'. Perforate 3 HSC squeeze holes at 1195'. Establish rate of 2 bpm at 0 PSI. Spot plug #5 with calculated TOC at 1050'. SI well and WOC overnight. SDFD.
- 8/25/16 Travel to location. Open up well; no pressures. TIH and tag plug #5 at 1010'. RU A-Plus wireline. Perforate 3 HSC squeeze holes at 924'. Establish rate of 1.5 bpm at 300 PSI. PU 7-5/8" DHS CR and set at 880'. Sting out/ sting into CR and establish rate of 1 bpm at 400 PSI. Spot plug #6 with calculated TOC at 774'. LD setting tool. Spot plug #7 with TOC at surface. LD all tubing. ND BOP. Dig out wellhead. Cut off wellhead. Found cement down 18' in 7-5/8" and down 16' in annulus. Spot plug #8 top off casings and install P&A Marker with coordinates 36° 30' 1" N / 108° 7' 43" W. RD and MOL.

Leroy Lee, Navajo Nation EPA representative, was on location.
Ray Espinoza, BLM representative, was on location.
Bill Diers, BLM representative, was on location.

Frontier A #1

Plugged Wellbore Diagram

Mesaverde Water Disposal Well

Spud: 8/9/57

Gallup Completion: 8/18/57

Injection Completion: 11/6/97

Plugged: 8/25/16

Elevation: 5989' GI

1750' FSL, 790' FEL, Section 8, T-26-N, R-12-W, San Juan County, NM

API #30-045-05919

Kirtland @ 285'

Fruitland @ 920'

Pictured Cliffs @ 1188'

Chacra @ 1459'

Mesaverde @ 1975'

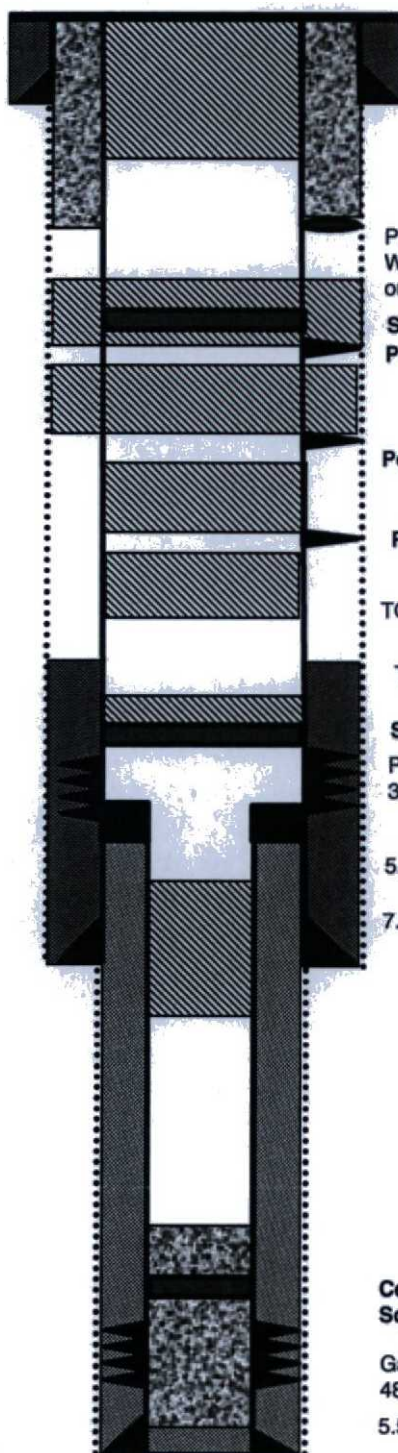
Mancos @ 3922'

Gallup @ 4760'

12.25" hole

9-78" Hole

6.75" Hole



Plug #8: 18' - 0'
Class B cement, 32 sxs

10.75", 32.75# Casing set @ 173'
Cement with 150 sxs, circulate to surface

Plug #7: 345' - 18'
Class B cement, 99 sxs

Perforate @ 560', squeeze
With 225 sxs and circulate
out bradenhead. (1996)

Plug #6: 924' - 774'
Class B cement, 71 sxs
37 outside and 33 inside

Set CR @ 880'
Perforate @ 924'

Plug #5: 1195' - 1010'
Class B cement, 93 sxs
37 outside and 56 inside

Perforate @ 1195'

Plug #4: 1559' - 1368'
Class B cement, 48 sxs

Perforate @ 1509'

Plug #3: 2074' - 1916'
Class B cement, 36 sxs

TOC @ 2024' (CBL 2016)

Plug #2: 3670' - 3510'
Class B cement, 36 sxs

TOC @ 2480' (CET 1996)

Set CR @ 3670'

Point Lookout Perforations:
3712' - 3856'

Plug #1: 3986' - 3826'
Class B cement, 24 sxs

5.5" Liner Top at 3807'

7.625" 26.4 casing set at 3940'
Cement with 250 sxs

Cement Retainer @ 4825' (1996 work)
Squeeze with 136 sxs below and 4 bbls above

Gallup Perforations:
4897' - 5025'

5.5" 15.5# Casing set @ 5106'
Cement with 300 sxs, circulated to surface

TD 5100'
PBTD 4567'