

RECEIVED

OCT 25 2018

Form 3160-5  
(June 2015)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0137  
Expires: January 31, 2018**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.**Lease Serial No.  
NMNM 80056. If Indian, Allottee or Tribe Name  
Eastern Navajo

SUBMIT IN TRIPLICATE - Other instructions on page 2

7. If Unit of CA/Agreement, Name and/or No.  
NMNM 132981A8. Well Name and No.  
Nageezi Unit 501H9. API Well No.  
30-045-3586010. Field and Pool or Exploratory Area  
Nageezi Unit; Mancos (Oil)11. Country or Parish, State  
San Juan County, NM

## 1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

## 2. Name of Operator

Encana Oil &amp; Gas (USA) Inc.

## 3a. Address

370 17th Street, Suite 1700  
Denver, CO 80202

## 3b. Phone No. (include area code)

(720) 876-5339

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

SHL: 2544' FNL and 1510' FEL Section 3, T23N, R9W

BHL: 80' FNL and 2339' FWL Section 11, T23N, R9W

## 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"/> Hydraulic Fracturing	<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 checked="" type="checkbox"/> Other Completions Information
	<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 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 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 must 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 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.)

Encana Oil & Gas (USA) Inc. performed completion operations from 09/14/2018 to 10/12/2018, which are detailed on the attachment enclosed.

ACCEPTED FOR RECORD

NOV 05 2018

FARMINGTON FIELD OFFICE  
By: 

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

Jevin Croteau

Title Senior Regulatory Analyst

Signature 

Date 10/23/18

## THE 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 

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**Nageezi Unit 501H API: 30-045-35860 Completions Sundry Information dated 10/23/2018:**

**09/14/18:**

- Spotted in and r/u pump trucks and acid truck. Pressure tested lines to a low test of 250 psi and a high test of 9000 psi, good test. Pressured up on 7" csg to 1500 psi and held. Pressure tested 4.5" csg to 1500 psi and held for 30 minutes, tested to 5000 psi and held for 5 minutes, all test good. Kicked pumps on and opened toe sleeve @ 8042 psi, pumped 25 bbls @ 1 bbl/min @ 1615 psi, pumped 25 bbls @ 2 bbls/min @ 2340 psi, pumped 25 bbls @ 3 bbls/min @ 2793 psi, pumped 25 bbls @ 4 bbls/min @ 2624 psi, pumped 50 bbls @ 5 bbls/min @ 2715 psi, pumped 2000 gallons 15% HCl w/inhibitor, flushed csg with 206 bbls @ 5.5 bbls/min @ 1860 psi, shut down pumps, shut in 440 psi and secured well, bled off pressure from 7" csg, r/d.
- Secured well and shut in waiting on frac.

**09/25/18:**

- MIRU Frac Equipment.

**09/26/18:**

- Pressure test lines to 9,500 psi (N2 and Fluid). After small fixes had a good test.
- Pressure test pump down lines to 4500, had to change out 2 low torque valves then got a good test.
- Frac stg #1, of 20. Used 70Q foam, 1,078 bbl water, 1,377,559 scf N2, 101,400 lbs sand, Avg PSI: 6,255' at 62 BPM, ISIP:965, FG:0.637 psi/ft.
- RIH W/WL, Stage #2. Bbls pumped: 202, Plug set @: 10,000' Perfs 9,764,' - 9,984', Avg spd:270 ft/min, Avg wt: 734, Max rate: 12 Max psi:1,150.

**09/27/18:**

- Frac stg #2, of 20. Used 70Q foam, 1,078 bbl water, 1,150,233 scf N2, 248,400 lbs sand, Avg PSI: 7,589' at 62.3 BPM, ISIP: 1,214, FG:0.689 psi/ft.
- RIH W/WL, Stage #3. Bbls pumped: 171 Plug set @: 9,750, Perfs 9,524,' - 9,735', Avg spd: 350 ft/min, Avg wt: 540, Max rate: 12 Max psi:1,350.
- Frac stg #3, of 20. Used 70Q foam, 1,154 bbl water, 1,201,911 scf N2, 250,250lbs sand, Ave PSI: 7,386' at 46.7 BPM, ISIP:1,141, FG:0.673 psi/ft.
- RIH W/WL, Stage #4. Bbls pumped: 158, Plug set @: 9,515' Perfs 9,284,' - 9,505', Avg spd:330 ft/min, Avg wt:450, Max rate: 12 Max psi:1,200.
- Frac stg #4, of 20. Used 70Q foam, 1,029 bbl water, 1,036,494 scf N2, 190,000 lbs sand, Ave PSI: 7,318' at 62.3 BPM, ISIP:1,241, FG:0.694 psi/ft.
- RIH W/WL, Stage #5. Bbls pumped:136, Plug set @: 9,275' Perfs 9,044,' - 9,265', Avg spd:330 ft/min, Avg wt:720, Max rate: 12 Max psi:1,175.
- Frac stg #5, of 20. Used 70Q foam, 1,072 bbl water, 1,113,416 scf N2, 254,500 lbs sand, Ave PSI: 7,253' at 61.6 BPM, ISIP:1,139, FG:0.673 psi/ft.
- RIH W/WL, Stage #6. Bbls pumped:133, Plug set @: 9,035' Perfs 8805,' - 9,025', Avg spd:330 ft/min, Avg wt:700, Max rate: 12 Max psi:1,325.

**09/28/15:**

- Frac stg #6, of 20. Used 70Q foam, 1,765 bbl water, 1,537,385 scf N2, 250,010 lbs sand, Avg PSI: 6,722' at 62.8 BPM, ISIP:1,081, FG:0.661 psi/ft.
- RIH W/WL, Stage #7. Bbls pumped: 126, Set plug @: 8,795 Perfs: 8,564,' - 8,784', Avg spd: 350 ft/min, Avg wt:650, Max rate:12 Max psi:1,180.

- Frac stg #7 of 20. Used 70Q foam, 1,860 bbl water, 2,052,620 scf N2, 251,000 lbs sand, Ave PSI:6,128' at 61.5 BPM, ISIP:1119, FG:0.669 psi/ft.
- RIH W/WL, Stage #8. Bbls pumped:119, Plug set @: 8,555' Perfs 8,324 - 8,545, Avg spd:330 ft/min, Avg wt:715, Max rate:12, Max psi:1,331.
- Frac stg #8 of 20. Used 70Q foam, 1,123 bbl water, 1,311,070 scf N2, 248,200 lbs sand, Ave PSI:5,980' at 60.8 BPM, ISIP:1,087, FG:0.662 psi/ft.
- RIH W/WL, Stage #9. Bbls pumped:110, Plug set @: 8,315' Perfs 8,084 - 8,305, Avg spd:330 ft/min, Ave wt:720, Max rate:12, Max psi:1,150.
- Frac stg #9 of 20. Used 70Q foam, 1,149 bbl water, 1,263,493 scf N2, 255,200 lbs sand, Avg PSI:5,865' at 61.7 BPM, ISIP:1,113, FG:0.668 psi/ft.
- RIH W/WL, Stage #10. Bbls pumped: 103, Plug set @: 8,075' Perfs 8,064 - 7,844, Avg spd:350 ft/min, Ave wt:700, Max rate:12, Max psi:1,300.
- Frac stg #10 of 20. Used 70Q foam, 1,278 bbl water, 1,276,846 scf N2, 266,400 lbs sand, Avg PSI:6,223' at 61.5 BPM, ISIP:1,079, FG:0.661 psi/ft.
- RIH W/WL, Stage #11. Bbls pumped: 103, Plug set @: 7,835' Perfs 7,604' - 7,824', Avg spd: 350 ft/min, Ave wt:800, Max rate:12, Max psi:1,250.

#### 09/29/18:

- Frac stg #11 of 20. Used 70Q foam, 1,329 bbl water, 1,570,969 scf N2, 256,400 lbs sand, Avg PSI:6,069' at 60.4 BPM, ISIP:1,210, FG:0.688 psi/ft.
- RIH W/WL, Stage #12. Bbls pumped: 90, Plug set @: 7,595' Perfs 7,364' - 7,584', Avg spd:350 ft/min, Avg wt:660, Max rate:12, Max psi:1,350.
- Frac stg #12 of 20. Used 70Q foam, 1,257 bbl water, 1,161,356 scf N2, 251,700 lbs sand, Avg PSI:6,223' at 61.2 BPM, ISIP:1,059, FG:0.657 psi/ft.
- RIH W/WL, Stage #13. Bbls pumped: 86, Plug set @: 7,355' Perfs 7,131' - 7,344', Avg spd:340 ft/min, Avg wt:600, Max rate:12, Max psi:1,080.
- Frac stg #13 of 20. Used 70Q foam, 1,058 bbl water, 1,182,622 scf N2, 214,220 lbs sand, Avg PSI:5,422' at 59.1 BPM, ISIP:1,033, FG:0.651 psi/ft.
- RIH W/WL, Stage #14. Bbls pumped: 90, Plug set @: 7,115' Perfs 6,884' - 7,105', Avg spd:320 ft/min, Avg wt:780, Max rate:12, Max psi:1,120.
- Frac stg #14 of 20. Used 70Q foam, 1,059 bbl water, 1,180,765 scf N2, 253,900 lbs sand, Avg PSI: 5,715' at 61.5 BPM, ISIP:1,094, FG:0.664 psi/ft.
- RIH W/WL, Stage #15. Bbls pumped: 75, Plug set @: 6,875' Perfs 6,643' - 6,862', Avg spd:350 ft/min, Avg wt:710, Max rate:12, Max psi:1,180.
- Frac stg #15 of 20. Used 70Q foam, 1,117 bbl water, 1,177,087 scf N2, 257,000 lbs sand, Avg PSI:5,902' at 60.8 BPM, ISIP:1,184, FG:0.682 psi/ft.
- RIH W/WL, Stage #16. Bbls pumped: 61, Plug set @: 6,635' Perfs 6,404' - 6,624', Avg spd:350 ft/min, Avg wt:660, Max rate:12, Max psi:1,300.

#### 09/30/18:

- Frac stg #16 of 20. Used 70Q foam, 826 bbl water, 1,104,996 scf N2, 239,300 lbs sand, Avg PSI:5,913' at 61.2 BPM, ISIP:1,177, FG:0.681 psi/ft.

- RIH W/WL, Stage #17. Bbls pumped: 51, Plug set @: 6,396' Perfs 6,164' - 6,384', Avg spd:350 ft/min, Avg wt: 620, Max rate:12, Max psi:1,200.
- Frac stg #17 of 20. Used 70Q foam, 1,049 bbl water, 1,138,928 scf N2, 250,800 lbs sand, Avg PSI: 5,608' at 62.8 BPM, ISIP:1,232, FG:0.692 psi/ft.
- RIH W/WL, Stage #18. Bbls pumped: 53, Plug set @: 6,155' Perfs 5,924' - 6,145', Avg spd:300 ft/min, Avg wt: 600, Max rate:12, Max psi:1,375.
- Frac stg #18 of 20. Used 70Q foam, 915bbl water, 1,093,074 scf N2, 251,250 lbs sand, Avg PSI: 5,034' at 60.3 BPM, ISIP:1,096, FG:0.664 psi/ft.
- RIH W/WL, Stage #19. Bbls pumped: 43, Plug set @: 5,917' Perfs 5,684' - 5,905', Avg spd:275 ft/min, Avg wt: 750, Max rate:9, Max psi:1,050.
- Frac stg #19 of 20. Used 70Q foam, 1,003bbl water, 1,078,900 scf N2, 251,450 lbs sand, Avg PSI: 4,949' at 60.1 BPM, ISIP:1,185, FG:0.683 psi/ft.
- RIH W/WL, Stage #20. Bbls pumped: 38, Plug set @: 5,675' Perfs 5,444' - 5,665', Avg spd:280 ft/min, Avg wt: 750, Max rate:9, Max psi:990.
- Frac stg #20 of 20. Used 70Q foam, 965 bbl water, 1,150,967 scf N2, 247,600 lbs sand, Avg PSI: 4,931' at 62.9 BPM, ISIP:1,029, FG:0.650 psi/ft.
- RIH and set "Magnum" kill plug at 5,240'. POOH. Csg psi: 567, Bled down well to tank, recovered +/- 6 bbl of fluid, psi:0, no flow. SI well, left well SI until Frac on the 502H was finished.
- Bled off csg and negative test Kill plug for 30 mins, good test. Pressured up on the plug to 2045 psi and held for 30 mins, good test. bled off pressure. RD Basin wireline.
- Well shut in, waiting for operations on the 502H to be completed.

#### 10/9/18:

- N/D frac valve, n/u bop stack, flow cross, and annular. (Changed Element on Annular).
- Spotted in and r/u Aztec 880, started to run N2 unit lines & flowback lines.
- Pressure tested blind rams to a low test of 500 psi and a high test of 4500 psi, Installed 2 3/8" jt of tbg, tested pipe rams to a low test of 500 psi and a high test of 4500 psi, annular to 2500 psi, all test good and charted.
- RU Casing handling equipment & tongs, PU landing jt, Back out lock pins.
- Un land hanger @ 60k & break out, LD 1 jt 4.5" csg, LD 10', 10' & 3' pup jts, PU jt 4.5" csg, MU hanger & landing jt, land hanger, run in lock pins, LD landing jt. RDMO CSG crew equipment.
- Swap handling tools, Load pipe racks w/ 2 3/8 PH6 & tally. Moved and re spotted light plants.
- Made up BHA of 3 7/8" Hurricane Mill (Serial # RD 0707), bit sub, dual flapper valve, 10' pup jt, RN-Nipple, 10' pup jt. Begin PU 2 3/8" WS.
- Continue RIH w/Mil bha, ITH w/90 jts @ 2842'.

#### 10/10/18:

- RU ADA & F B manifold equipment & restraints.
- Continue TIH w/mill bha, Tag kill plug on jt 169 5254' LD jt 169.
- Tie back to single fast line, PU swivel on jt 169 w/new saver sub.
- Start pressure testing FB 3" & panic line iron 500 psi & 2500 psi.
- Added a few valves into flowback iron that were left out prior to testing iron. Pressure tested flowback iron and rig's hardline to a low test of 500 psi and a high test of 3500 psi, all test good.

- Continued to r/u ADA N2 units. Pressure tested all N2 lines to a low test of 500 psi and a high test of 3500 psi, all test good.
- Broke circulation with N2 unit putting 1500 SCFM down backside @ 1300 psi and 1375 SCFM with 1/4 bbl/min water down tbg @ 1400 psi with rig pump pumping 1 bbl/min. Circulated for 1 hour, WHP 900 psi and RTR 1.25 bbls/min.
- RIH with swivel and tagged kill plug @ 5254', set 8K on plug, drilled plug in 25 minutes, circulated 15 minutes, WHP 850 psi.
- DO CFP#1 through #10.

#### 10/11/18:

- DO CFP #11 through #19.
- Sent 10-10-10 heavy gel sweep, circulated wellbore clean.
- Resume circulating well till cleans up and get back sweeps.
- Layed down 20 jts with swivel, r/d power swivel. Pumped 25 bbls fresh water down tbg to kill tbg, continued to laydown workstring onto racks.
- LD to 160 JT's in the hole. EOT @ 5005' KB. Shut down N2 & foam unit. Begin bleeding down 7" to frac tanks on choke. 7" pressure 1200 psi. WHP 850 psi.
- Pump 150 bbl's TFW down 4.5" for kill. 7" down to 600 psi. Resume LD WS on pipe racks. After 75 bbl's WHP was still 300 psi. After 90 bbl's vacuum.
- Continue TOH laying down WS, OOH w/mill bha.
- Pump 50 bbls down 7" csg. well on vacuum.

#### 10/12/18:

- MU landing 4.5 jt, back out lock pins, Un land hanger, LD landing jt & hanger, TOH w/4.5" tie back string, OOH w/Baker PBR seal assy.
- RD csg equipment, swap handling tools & pipe rams to 2 7/8, load production tbg on rack, remove tread protectors & tally.
- Made up BHA of half mule shoe, 13 jts 2 3/8" tbg, 2 3/8" X 2 7/8" X-Over, 1 jt 2 7/8" tbg, profile nipple, rih with tbg and GLV's as per design to landing depth, landed tbg on hanger.
- R/D rig floor and handling tools.
- N/D bop stack, annular, and flow cross.
- Pulled tbg hanger, made marks, put 7 turns to the left, set TAC 15K tension placing TAC @ 4447.45' and EOT @ 5404.90', landed tbg on hanger.
- NU 5K x 2 9/16" (Cameron) well head. Rig down.
- Pull BPV and install TWC. Test void 250/5000. (Good) Test pro tree 250/4500 psi for good charted test. Pull TWC and release T&T.
- S.I. Secure well. Wait for flowback.

#### 10/18/18:

- Flowing back well. Flowing TBG on 128/64 choke at this time. TBG 700 psi, CSG 858 psi & flowing 1 bbl's oil per hour. Flowing 54 bbl's water per hour & making a trace of sand. (Very little) Gas spot rate is NA.