

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

OCT 18 2018

FORM 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.*

5. Lease Serial No.  
NMNM 8005

6. 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 132981A

8. Well Name and No.  
Nageezi Unit 510H

9. API Well No.  
30-045-35862

10. 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 & 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: 260' FNL and 399' FEL Section 9, T23N, R9W  
BHL: 336' FSL and 330' FWL Section 10, T23N, R9W

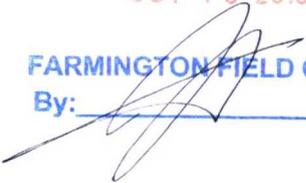
12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

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 09/19/2018 to 10/13/2018, which are detailed on the attachment enclosed.

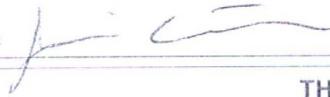
NMOCD  
OCT 24 2018  
DISTRICT III

ACCEPTED FOR RECORD  
OCT 18 2018  
FARMINGTON FIELD OFFICE  
By: 

**CONFIDENTIAL**

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

Title Senior Regulatory Analyst

Signature 

Date 10/16/18

**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** 

**Nageezi Unit 510H API: 30-045-35862 Completions Sundry Information dated 10/16/2018:**

**09/13/18:**

- 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 @ 6570 psi, pumped 25 bbls @ 1 bbl/min @ 769 psi, pumped 25 bbls @ 2 bbls/min @ 880 psi, pumped 25 bbls @ 3 bbls/min @ 1005 psi, pumped 25 bbls @ 4 bbls/min @ 1115 psi, pumped 50 bbls @ 5 bbls/min @ 1230 psi, pumped 2000 gallons 15% HCl acid with inhibitor, flushed csg with 245 bbls @ 5.5 bbls/min @ 1300 psi, shut down pumps. Secured well and shut in, bled pressure off 7" csg, r/d.
- Secured well and shut in waiting on frac.

**09/19/18:**

- RU Frac Equipment.

**09/20/18:**

- Frac stg #1 of 30 Used 70Q foam, 964 bbl fresh water, 1,601,519 scf N2, 109,800 lbs sand, AVG PSI: 7,131 at 65.1 BPM, ISIP: 1,249, FG: .694.
- RIH W/ WL, Stage # 2. Bbls pumped: 368, Set plug @: 12,480, Perfs: 12,249' - 12,470, Avg spd: 255 ft/min, Avg wt: 800, Max rate: 12, Max psi: 1,900, Logging out of hole.
- Frac stg #2 of 30 Used 70Q foam, 1,525 bbl fresh water, 1,449,334 scf N2, 251,000 lbs sand, AVG PSI: 7,641 at 63.7 BPM, ISIP: 1,466, FG: 0.739 psi/ft.
- RIH W/ WL, Stage # 3. Bbls pumped: 264, Set plug @: 12,240, Perfs: 12,009' - 12,230', Avg spd: 300 ft/min, Avg wt: 670, Max rate: 12, Max psi: 1,720.
- Frac stg #3 of 30 Used 70Q foam, 690 bbl fresh water, 690 bbls prod water, 1,270,389 scf N2, 253,800 lbs sand, AVG PSI: 7,150 at 56.3 BPM, ISIP: 1,100, FG: 0.664 psi/ft.
- RIH W/ WL, Stage #4. Bbls pumped: 323, Set plug @: 12,000 Perfs: 11,769' - 11,989, Avg spd: 350 ft/min, Avg wt: 530, Max rate: 12, Max psi: 1,1750.

**09/21/18:**

- Frac stg #4 of 30 Used 70Q foam, 688 bbl fresh water, 688 bbls prod water, 1,126,642 scf N2, 255,100 lbs sand, AVG PSI: 7,525 at 57.7 BPM, ISIP: 1,076, FG: 0.659 psi/ft.
- RIH W/ WL, Stage #5. Bbls pumped: 243, Set plug @: 11,760 Perfs: 11,529' - 11,749', Avg spd: 335 ft/min, Avg wt: 510, Max rate: 12, Max psi: 1,840.
- Frac stg #5 of 30 Used 70Q foam, 518 bbl fresh water, 518 bbls prod water, 1,143,322 scf N2, 248,300 lbs sand, AVG PSI: 7,490 at 59 BPM, ISIP: 1128 PSI, FG: 0.670 psi/ft.
- RIH W/ WL, Stage #6. Bbls pumped: 233, Set plug @: 11,520, Perfs: 11,290' - 11,510', Avg spd: 330 ft/min, Avg wt: 450, Max rate: 12, Max psi: 1,720.
- Frac stg #6 of 30 Used 70Q foam, 1,319 bbl water, 1,178,860 scf N2, 250,800 lbs sand, AVG PSI: 7,536 at xx 57.3, ISIP: 1,488 PSI, FG: 0.743 psi/ft.
- RIH W/ WL, Stage #7. Bbls pumped: 220, Set plug @: 11,280, Perfs: 11,049' - 11,270', Avg spd: 320 ft/min, Avg wt: 690, Max rate: 12, Max psi: 1,850.
- Frac stg #7 of 30 Used 70Q foam, 1,226 bbl water, 1,168,528 scf N2, 251,000 lbs sand, AVG PSI: 7,149 at 57.6 BPM, ISIP: 1378 PSI, FG: 0.721 psi/ft.
- RIH W/ WL, Stage #8. Bbls pumped: 200, Set plug @: 11,032, Perfs-10,809 - 11,021', Avg spd: 320 ft/min, Avg wt: 690, Max rate: 12, Max psi: 1,980.
- Frac stg #8 of 30 Used 70Q foam, 1,233 bbls water, 1,167,713 scf N2, 254,500 lbs sand, AVG PSI: 7,570 at 59.3 BPM, ISIP: 1,176 PSI, FG: 0.679 psi/ft.

- RIH W/ WL, Stage #9. Bbls pumped: 244, Set plug @: 10,800, Perfs 10,569'-10,784', Avg spd: 280 ft/min, Avg wt: 660, Max rate: 12, Max psi: 1,860.
- Frac stg #9, of 30 Used 70Q foam, 1,427 bbl water, 1,091,360 scf N2, 250,300 lbs sand, AVG PSI: 7,397 at 59.1 BPM, ISIP: 1,255, FG: 0.696 psi/ft.

**09/22/18:**

- RIH W/ WL, Stage #10. Bbls pumped: 228, Plug @: 10,560, Perfs: 10,329'-10,549', Avg spd: 310 ft/min Avg wt: 605, Max rate: 12, Max psi: 1600.
- Frac stg #10, of 30 Used 70Q foam, 1339 bbl water, 1,086,488 scf N2, 252,000 lbs sand, AVG PSI: 7,184 at 60.7 BPM, ISIP: 1,184, FG: 0.681 psi/ft.
- RIH W/ WL, Stage #11. Bbls pumped: 201, Plug @: 10,320, Perfs: 10,089'-10,309' Avg spd: 320 ft/min Avg wt: 590, Max rate: 12, Max psi: 1600.
- Frac stg #11, of 30. Used 70Q foam, 1,232 bbl water, 1,236,508 scf N2, 245,000 lbs sand, AVG PSI: 6,850 at 59.4 BPM, ISIP: 1,340, FG: 0.713 psi/ft.
- RIH W/ WL, Stage #12. Bbls pumped: 174, Plug @: 10,080, Perfs: 9,849'-10,070', Avg spd: 330 ft/min Avg wt: 690, Max rate: 12, Max psi: 1,700.
- Frac stg #12, of 30. Used 70Q foam, 1,171 bbl water, 1,126,480 scf N2, 251,000 lbs sand, AVG PSI: 6,818 at 60 BPM, ISIP: 1,441, FG: 0.734 psi/ft.
- RIH W/ WL, Stage #13. Bbls pumped: 167, Plug @: 9,840', Perfs: 9,609'-9,830', Avg spd: 325 ft/min Avg wt: 650, Max rate: 12, Max psi: 1,850.
- Frac stg #13, of 30. Used 70Q foam, 1,156 bbl water, 1,140,075 scf N2, 250,500 lbs sand, AVG PSI: 6,975 at 69 BPM, ISIP: 1,425, FG: 0.731 psi/ft.
- RIH W/ WL, Stage #14. Bbls pumped: 155 Plug @: 9,600', Perfs: 9,369'-9,582' Avg spd: 330 ft/min Avg wt: 680, Max rate: 12, Max psi: 1,780.
- Frac stg #14, of 30. Used 70Q foam, 1,149 bbl water, 1,116,931 scf N2, 250,300 lbs sand, AVG PSI: 5,948 at 60.7 BPM, ISIP: 1,269, FG: 0.699 psi/ft.
- RIH W/ WL, Stage #15. Bbls pumped: 154 Plug @: 9,360' Perfs: 9,129'-9,349' Avg spd: 350 ft/min Avg wt: 680 Max rate: 12 Max psi: 1,650.
- Frac stg #15, of 30. Used 70Q foam, 1,144 bbl water, 1,123,688 scf N2, 250,900 lbs sand, AVG PSI: 6,532 at 61.4 BPM, ISIP: 1,138, FG: 0.672 psi/ft.

**09/23/18:**

- RIH W/ WL, Stage #16. Bbls pumped: 138 Plug @: 9,120' Perfs: 8,889'-9,109' Avg spd: 350 ft/min Avg wt: 705 Max rate: 12 Max psi: 1,530.
- Frac stg #16, of 30. Used 70Q foam, 1,117 bbl water, 1,118,101 scf N2, 250,500 lbs sand, AVG PSI: 6,466 at 62.6 BPM, ISIP: 1,107, FG: 0.665 psi/ft.
- RIH W/ WL, Stage #17. Bbls pumped: 134 Plug @: 8,880' Perfs: 8,649'-8,869' Avg spd: 340 ft/min Avg wt: 640 Max rate: 12 Max psi: 1,450.
- Frac stg #17, of 30. Used 70Q foam, 963 bbl water, 1,111,469 scf N2, 248,600 lbs sand, AVG PSI: 6,431 at 60.2 BPM, ISIP: 1,281, FG: 0.701 psi/ft.
- RIH W/ WL, Stage #18. Bbls pumped: 127 Plug @: 8,640', Perfs: 8,409' - 8,630', Ave spd: 330 ft/min, Ave wt: 600, Max rate: 12 Max psi: 1,610.
- Frac stg #18, of 30. Used 70Q foam, 1,053 bbl water, 1,080,760 scf N2, 249,000 lbs sand, AVG PSI: 6,687' at 60 BPM, ISIP: 1,374, FG: 0.720 psi/ft.

- RIH W/ WL, Stage #19. Bbls pumped:119 Plug @: 8,400', Perfs:8,169' - 8,390', Ave spd:330 ft/min, Ave wt: 650, Max rate:12 Max psi:1,700.
- Frac stg #19, of 30. Used 70Q foam, 1,189 bbl water, 1,042,363 scf N2, 250,500 lbs sand, AVG PSI: 6,706 at 60.7 BPM, ISIP:1,206, FG: 0.686 psi/ft.
- RIH W/ WL, Stage #20. Bbls pumped:113 Plug @: 8,158', Perfs:7,929' - 8,144', Ave spd:350 ft/min, Ave wt: 740, Max rate:12 Max psi:1,850.
- Frac stg #20, of 30. Used 70Q foam, 1,052 bbl water, 1,112,228 scf N2, 251,300 lbs sand, AVG PSI: 6,868' at 65.6 BPM, ISIP:1,192, FG: 0.683 psi/ft.
- RIH W/ WL, Stage #21. Bbls pumped: 98 Plug @: 7,920', Perfs:7,689' - 7,909', Avg spd:350 ft/min, Avg wt: 620, Max rate:12 Max psi:1,500.

**09/24/18:**

- Frac stg #21, of 30. Used 70Q foam, 1,126 bbl water, 1,088,088 scf N2, 254,500 lbs sand, AVG PSI: 6,433' at 65.7 BPM, ISIP:1,013, FG: 0.646 psi/ft.
- RIH W/ WL, Stage #22. Bbls pumped: 93 Plug @: 7,680', Perfs:7,449' - 7,669', Avg spd:350 ft/min, Avg wt: 700, Max rate:12 Max psi:1,450.
- Frac stg #22, of 30. Used 70Q foam, 1,100 bbl water, 1,081,998 scf N2, 255,000 lbs sand, AVG PSI: 6,364' at 66.1 BPM, ISIP:1,093, FG: 0.662 psi/ft.
- RIH W/ WL, Stage #23. Bbls pumped: 90 Plug @: 7,440', Perfs:7,209' - 7,429', Avg spd:350 ft/min, Avg wt: 650, Max rate:12 Max psi:1,500.
- Frac stg #23, of 30. Used 70Q foam, 996 bbl water, 1,091,161 scf N2, 251,000 lbs sand, AVE PSI:6,175' at 60.3 BPM, ISIP:1,441, FG:0.734 psi/ft.
- RIH W/ WL, Stage #24. Bbls pumped: 168 Plug @: 7,200', Perfs:6,969' - 7,190', Avg spd:330 ft/min, Avg wt: 650, Max rate:12 Max psi:1,690.
- Frac stg #24, of 30. Used 70Q foam, 1024 bbl water,1,024,526 scf N2, 250,500 lbs sand, AVE PSI:6,073' at 59.8 BPM, ISIP:1,231, FG:0.691 psi/ft.
- RIH W/ WL, Stage #25. Bbls pumped: 73, Set Plug @: 6,960', Perfs:6,729' - 6,950', Ave spd:330 ft/min, Ave wt:740 Max rate:12 Max psi:1,520.
- Frac stg #25, of 30. Used 70Q foam, 1,033 bbl water,1,007,150 scf N2, 251,000 lbs sand, AVG PSI:5,894' at 60,8 BPM, ISIP:1,275, FG:0.700 psi/ft.
- RIH W/ WL, Stage #26. Bbls pumped: 59, Set Plug @: 6,712', Perfs:6,489' - 6,700', Ave spd:315 ft/min, Ave wt:750 Max rate:12 Max psi:1,450.
- Frac stg #26, of 30. Used 70Q foam, 980 bbl water,1,113,975 scf N2, 250,000 lbs sand, AVG PSI: 5,726' at 65.6 BPM, ISIP: 1,274, FG:0.7 psi/ft.
- RIH W/ WL, Stage #27. Bbls pumped: 51, Set Plug @: 6,480', Perfs:6,249' - 6,469', Avg spd:290 ft/min, Avg wt:600 Max rate: 9 Max psi: 2400.
- Frac stg #27, of 30. Used 70Q foam, 985 bbl water,1,110,399 scf N2, 255,000 lbs sand, AVE PSI:5,939' at 65.5 BPM, ISIP:1,427, FG:0.731 psi/ft.

**09/25/18:**

- RIH W/ WL, Stage #28. Bbls pumped: 39, Set Plug @: 6,240', Perfs:6,009' - 6,229', Avg spd:350 ft/min, Avg wt:650 Max rate:9 Max psi:1,650.

- Frac stg #28, of 30. Used 70Q foam, 925 bbl water, 992,649 scf N2, 255,300 lbs sand, AVE PSI:6,071' at 65.8 BPM, ISIP:1,287, FG:0.702 psi/ft.
- RIH W/ WL, Stage #29. Bbls pumped: 36, Set Plug @: 6,000', Perfs:5,769' - 5,989', Avg spd:270 ft/min, Avg wt:450 Max rate:9 Max psi:1,350.
- Frac stg #29, of 30. Used 70Q foam, 839 bbl water, 1,039,891 scf N2, 250,000 lbs sand, AVE PSI:5,143' at 60 BPM, ISIP:1,613 FG:0.769 psi/ft.
- RIH W/ WL, Stage #30. Bbls pumped:31, Set Plug @: 5,760', Perfs:5,529' - 5,750', Avg spd:250 ft/min, Avg wt:700, Max rate:9 Max psi:1,550.
- Frac stg #30, of 30. Used 70Q foam, 801 bbl water, 420,951 scf N2, 250,980 lbs sand, AVE PSI:5,503' at 61.4 BPM, ISIP:1,548, FG:0.756 psi/ft.
- RIH and set Magnum kill plug at 5,213', POOH. RD wireline.
- Bled off csg and negative test Kill plug for 30 mins, good test. Pressured up on the plug to 2000 psi and held for 30 mins, good test. bled off pressure. RD wireline and all support equipment.

#### 10/05/18:

- N/D frac valve, n/u bop stack, flow cross, and annular.
- Spotted in and r/u Aztec 880, started to re-route pump lines, flowback lines and N2 unit lines from 507H to the 510H.
- Pressure tested blind rams to a low test of 500 psi and a high test of 4500 psi, Door seals leaking, fix & re test, 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 @ 65k & break out, LD 1 jt 4.5" csg, LD 8' & 15' 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. Rig up N2 & kill line to manifold.
- Made up BHA of 3 7/8" Hurricane Mill (Serial # HT 9340), bit sub, dual flapper valve, 10' pup jt, RN-Nipple, 10' pup jt, rih with 2 3/8" PH6 workstring and tagged kill plug @ 5188' jt #166, lay down 1 jt.

#### 10/06/18:

- RU pump line to manifold, tie rig back single fast, r/u power swivel. Warm up ADA equipment, pressure test N2 lines, panic line & manifold.
- Tested N2 csg lines to a low test of 500 psi, had several leaks, fixed leaks and tested again to a low of 500 psi and a high of 2500 psi, tested tbg line to a low of 500 psi and a high 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 @ 1200 psi with rig pump pumping 1.25 bbls/min. Circulated for 1 hour, WHP 650 psi and RTR 1.5 bbls/min.
- RIH with swivel and tagged kill plug @ 5188', drilled out kill plug in 48 minutes, WHP 950 psi with a RTR of 1.5 bbls/min, circulated 10 minutes.
- DO CFP #1 through #9.

**10/07/18:**

- DO CFP #10 through #23.

**10/08/18:**

- DO CFP #24 through #29.
- Sent a 10-10-10 heavy gel sweep and circulated with N2 unit. First sweep back with light trace of sand, second sweep back clean, WHP 700 psi.
- 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 157 JT's in the hole. EOT @ 4907' KB. Shut down N2 & foam unit. Begin bleeding down 7" to frac tanks on choke.
- Pump 100 bbl's TFW down 4.5" for kill. 7" down to 100 psi. Resume LD WS on pipe racks.
- OOH w/WS and BHA. Break down BHA and set to side of location.
- Move WS to floats. Change 2 3/8" pipe rams over to 4.5" and pick up lifting sub. Screw into 4.5" x 7 1/16" hanger and release hold down pins. Rig up CSG tongs.
- Pump 50 bbl's TFW down 7" & 4.5". ISIP light vacuum.
- Un land hanger 62k, break out hanger, l/d landing jt, Start TOH laying down tie back string, OOH w/113 jts & Baker PBR seal assy.

**10/09/18:**

- RD Csg equipment, swap handling tools & pipe rams to 2 7/8, load production tbg on rack, remove tread protectors & tally.
- Well blowing, Pump kill 60 bbls FW tbg on vacuum.
- TIH with tbg, GLV's, and TAC as per design.
- Continued to RIH with tbg and GLV's as per design to landing depth. Installed BPV in tbg hanger and landed tbg on hanger.
- R/D rig floor and handling tools.
- N/D bop stack, flow cross, and annular.
- Removed tbg hanger, made marks, put 7 rounds of left into tbg and set TAC in 16K tension, placing TAC @ 4479.72' and EOT @ 5305.90', landed tbg on hanger, n/u production tree.
- R/D Aztec 880, racked out pump and lines.
- Removed BPV and installed 2 way check. Pressure tested tree to a low test of 500 psi and a high test of 4500 psi, tested void to 5000 psi, all test good.
- Secured well and shut in waiting to be placed on production.

**10/13/18:**

- Flowing back well. Flowing TBG on 80/64 choke at this time. TBG 360 psi, CSG 771 psi & flowing 36 bbl's oil per hour. Flowing 22 bbl's water per hour & making a light sand. Gas spot rate is 2.0 MFC.