

Amended

Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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
N/A

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 405H

9. API Well No.
30-045-35841

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: 1984' FSL and 1738' FWL Section 3, T23N, R9W
BHL: 2002' FSL and 891' FWL Section 33, T24N, 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 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 must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat 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 08/17/2017 to 09/10/2017, which are detailed on the attachment enclosed.

Please note that this Sundry Notice is being resubmitted with the revised attached updated operations report to show additional operations that were performed.

ACCEPTED FOR RECORD

OIL CONS. DIV/DIST 3

DEC 08 2017

RECEIVED

DEC 04 2017

FARMINGTON FIELD OFFICE

Farmington Field Office
Bureau of Land Management

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

Jevin Croteau

Title Senior Regulatory Analyst

Signature

Date

11/29/2017

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 405H API: 30-045-35841 Completions Sundry Information dated 09/29/2017:

07/07/2017:

- Nipple up BOP, R/U choke house, hook up lines, flow line, pits, power cables, flare line. Extend flow line w/ welder
- Test BOP, blind rams, HCR, pipe rams, kill valves, check valve, chock valves @ 250 low 10 mins 3000 high 10 mins; Annular 250 low 10 mins 2100 high 10 mins; Casing 1000psi for 30 mins; Function test accumulator and verified pre-charge pressure.

07/16/2017:

- WOC. P/U directional tools, orientate TIH dp from derrick, P/U agitater, start picking up pipe f/ racks. depth @ 2834'.
- Fill drill pipe circulate and rig up tester hold safety meeting.
- Pressure test casing to 1500# 30 min. Rig down tester.

07/22/2017:

- RIH with 218 jts of 4 1/2" 11.6# P-110 buttress thread liner casing.
- Load back side of 4 1/2" csg, press up to 1,500 psi, help good for 15 min, remove BOP, install frac stack, secure well.

08/17/2017:

- Open well, continue RIH with tbg, on joint 164 tag top of liner @ 5,054'. Polish off top of liner.
- POOH with tbg laying down, laid polishing mill down.
- Change handling tools over to 4 1/2", load out pipe racks with 4 1/2" 11.6# P-110 buttress csg & tally.
- PU liner seal assemble, RIH with 116 jts of 4 1/2" 11.6# CS buttress csg, tag liner top at 5,054', space out liner & land in wellhead.
- Load back side of 4 1/2" csg, press up to 1,500 psi, held good for 15 min.
- Secure well, SDFN.

08/19/2017:

- Press up on backside of 4 1/2" csg to 1,500 psi and monitor, press test line to 8,000 psi, test good.
- Pressure lines to 9,000 psi, open well, pressure test casing to 5,000 psi for 10 min, test good, start bringing press up in 500 psi increments till alpha sleeve opened @ 6,400 psi, brought rate up to 2 bpm pumped 40 bbls press @ 3,200 psi, increase rate to 4 bmp, pump 40 bbls press @ 3,950 psi, increase rate to 6 bpm, pump 40 bbls press @ 4,500 psi, increase rate to 8 bpm, 10 bbls in press spiked to 7,800 psi pump shut down holding press.
- Pressure test lines to 9,000 psi.
- Press up to 7,800 psi, open well, well had 8,300 psi, bled well to zero, also surged well 2 times while bleeding down, brought press back up to 8,500 psi would not break, secure well.

08/20/2017:

- Check csg press, had 8,600 psi, backside had 2,600 psi, bled both to 0 psi, remove frac stack.
- NU 5K double BOP, pressure test BOP 250 psi low & 4,500 psi high, test good, secure well.

08/21/2017:

- Check tbg press 0 psi, check csg press 0 psi, RU pump on tbg, pump 50 bbls to clear tbg, Drop ball, pump 44 bbls, press rose to 3,400 psi but circulation did not stop, felt for guns to fire and had no action, RU pump on csg, shut in tbg, press up on csg to 4,000 psi press held good, bled back to 0 psi, bled tbg to 0 psi, pump down tbg with 15 bbls, ball seated press rose to 3,300 psi, circulation stopped, press feel back to circulating press of 1,200 psi, first gun fired bottom shot @ 13,089' move tbg 35', bottom of middle shot @ 13,059', wait 7 min second gun fired, move tbg 35', bottom of top shot @ 13,029', wait 7 min third gun fired, had good indications all shots

fired, pressured up on backside to 4,000 psi, press held, RD swivel, POOH with tbg laying dwn, laid dwn 36 jts, EOT @ 11,983', Secure well, SDFN

08/22/2017:

- Continue laying dwn tbg, laid dwn perf gun, all shots fired, ND BOP, Install frac stack, load out all auxiliary equipment, clean loc, Press test frac tree, 250 psi low & 8,500 psi high, chart the same, good test

08/28/2017:

- Press test fluid side lines to 9,500 psi, test good, test N2 lines to 9,500 psi, had leak on chicksan, replace chicksan, press test lines to 9,500 psi, test good, equalize and open well.
- 0 psi, bring pumps on line, press rose to 5,750 psi, broke back to 4,600 psi, increase rate to 25 bpm @ 5,600 psi, pump 1,000 gals 15% NEFE acid, acid on formation, press fell to 2,549 psi, Frac Stage # 1 of 33, Avg BH Rate 59.1 Bpm/Avg Slurry Rate-24 Bpm/Avg N2 Quality 70%/ Total N2-105,285,9 scf/Avg N2 Rate- 27,862 scfm/ Total 20/40 151,000 lbs/ Total 20# Water Frac 1,282 bbls.
- Pressure Test Lubricator to 4500 psi.
- RIH with wireline, set CFP at 13,014', Perforate stage #2 of 33 12,774' to 12,999', 24 holes, log well out, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 2 of 33, Avg BH Rate 60 Bpm/Avg Slurry Rate 25 Bpm/Avg N2 Quality 70%/ Total N2 155,590,3 scf/Avg N2 Rate 29,319 scfm/ Total 20/40 250,800 lbs/ Total 20# Water Frac 1,364 bbls.
- Pressure Test Lubricator to 4500 psi.
- RIH with wireline, set CFP at 12,759', Perforate stage #3 of 33 12,518' to 12,759', 24 holes, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 3 of 33, Avg BH Rate 59 Bpm/Avg Slurry Rate 25 Bpm/Avg N2 Quality 70%/ Total N2 1,844,439 scf/Avg N2 Rate 30,287 scfm/ Total 20/40 305,400 lbs/ Total 20# Water Frac 1272 bbls.
- Pressure Test Lubricator to 4000 psi.
- RIH with wireline, set CFP at 12,503', Perforate stage #4 of 33 12,262' to 12,486', 24 holes, all shots fired.
- Press test frac lines to 9,450 psi.

08/29/2017:

- Complete Frac Stage # 4 of 33, Avg BH Rate 57.2 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 2,351,833 scf/Avg N2 Rate 28,490 scfm/ Total 20/40 300,400 lbs/ Total 20# Water Frac 2,278 bbls.
- Pressure Test Lubricator to 2,500 psi.
- RIH with wireline, set CFP at 12,247', Perforate stage #5 of 33 12,006' to 12,230', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 5 of 33, Avg BH Rate 58.4 Bpm/Avg Slurry Rate 25 Bpm/Avg N2 Quality 70%/ Total N2 1,736,907 scf/Avg N2 Rate 27,578 scfm/ Total 20/40 302,600 lbs/ Total 20# Water Frac 1,501 bbls.
- Pressure Test Lubricator to 2,500 psi.
- RIH with wireline, set CFP at 11,991', Perforate stage # 6 of 33 11,750' to 11,974', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.

- Frac Stage # 6 of 33, Avg BH Rate 59.3 Bpm/Avg Slurry Rate 59.3 Bpm/Avg N2 Quality 71%/ Total N2 1,839,773 scf/Avg N2 Rate 28,657 scfm/ Total 20/40 302,200 lbs/ Total 20# Water Frac 1,473 bbls.
- Pressure Test Lubricator to 2,500 psi.
- RIH with wireline, set CFP at 11,735', Perforate stage # 7 of 33 11,494' to 11,718', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 7 of 33, Avg BH Rate 61 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,913,970 scf/Avg N2 Rate 30,699 scfm/ Total 20/40 309,000 lbs/ Total 20# Water Frac 1471 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 11,479', Perforate stage # 8 of 33 11,252' to 11,462', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 8 of 33, Avg BH Rate 59 Bpm/Avg Slurry Rate 25 Bpm/Avg N2 Quality 70%/ Total N2 1,939,212 scf/Avg N2 Rate 28,810 scfm/ Total 20/40 300,750 lbs/ Total 20# Water Frac 1315 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 11,238', Perforate stage # 9 of 33, 11,012' to 11,222', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 9 of 33, Avg BH Rate 61 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,798,667 scf/Avg N2 Rate 30,259 scfm/ Total 20/40 300,450 lbs/ Total 20# Water Frac 1653 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 10,998', Perforate stage # 10 of 33, 10,772' to 10,982', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 10 of 33, Avg BH Rate 61 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,822,832 scf/Avg N2 Rate 29,596 scfm/ Total 20/40 302,904 lbs/ Total 20# Water Frac 1460 bbls.

08/30/2017:

- Pressure Test Lubricator to 2,500 psi.
- RIH with wireline, set CFP at 10,758', Perforate stage # 11 of 33, 10,532' to 10,742', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 11 of 33, Avg BH Rate 59.8 Bpm/Avg Slurry Rate 25 Bpm/Avg N2 Quality 70%/ Total N2 1,897,160 scf/Avg N2 Rate 30,342 scfm/ Total 20/40 301,000 lbs/ Total 20# Water Frac 1,445 bbls.
- Pressure Test Lubricator to 3,000 psi.
- RIH with wireline, set CFP at 10,518', Perforate stage # 12 of 33, 10,292' to 10,502', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 12 of 33, Avg BH Rate 59.5 Bpm/Avg Slurry Rate 25 Bpm/Avg N2 Quality 70%/ Total N2 1,795,496 scf/Avg N2 Rate 30,316 scfm/ Total 20/40 301,000 lbs/ Total 20# Water Frac 1,548 bbls.
- Pressure Test Lubricator to 3,000 psi.

- RIH with wireline, set CFP at 10,278', Perforate stage # 13 of 33, 10,054' to 10,262', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 13 of 33, Avg BH Rate 56 Bpm/Avg Slurry Rate 25 Bpm/Avg N2 Quality 64%/ Total N2 1,757,743 scf/Avg N2 Rate 27,266 scfm/ Total 20/40 305.600 lbs/ Total 20# Water Frac 1,421 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 10,038', Perforate stage # 14 of 33, 9,812' to 10,022', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 14 of 33, Avg BH Rate 62 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,794,745 scf/Avg N2 Rate 30,366 scfm/ Total 20/40 299,400 lbs/ Total 16# Water Frac 1254 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 9,798', Perforate stage # 15 of 33, 9,572' to 9,782', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 15 of 33, Avg BH Rate 62 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,891,381 scf/Avg N2 Rate 31,143 scfm/ Total 20/40 302,400 lbs/ Total 16# Water Frac 1285 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 9,564', Perforate stage # 16 of 33, 9,332' to 9,542', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 16 of 33, Avg BH Rate 62 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,807,093 scf/Avg N2 Rate 30,358 scfm/ Total 20/40 300,120 lbs/ Total 16# Water Frac 1256 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 9,318', Perforate stage # 17 of 33, 9,092' to 9,302', 24 holes, POOH with wireline, all shots fired.

08/31/17:

- Press test frac lines to 9,500 psi.
- Frac Stage # 17 of 33, Avg BH Rate 59 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,801,097 scf/Avg N2 Rate 30,363 scfm/ Total 20/40 300,100 lbs/ Total 16# Water Frac 1,342 bbls.
- Pressure Test Lubricator to 2,500 psi.
- RIH with wireline, set CFP at 9,082', Perforate stage # 18 of 33, 8,852' to 9,063', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 18 of 33, Avg BH Rate 60.4 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,776,378 scf/Avg N2 Rate 30,447 scfm/ Total 20/40 XX lbs/ Total 14# Water Frac 1,502 bbls.
- Pressure Test Lubricator to 2,500 psi.
- RIH with wireline, set CFP at 8,840', Perforate stage # 19 of 33, 8,612' to 8,823', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 19 of 33, Avg BH Rate 62 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,859,610 scf/Avg N2 Rate 30,453 scfm/ Total 20/40 299,500 lbs/ Total 16# Water Frac 1192 bbls.

- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 8,598', Perforate stage # 20 of 33, 8,372' to 8,582', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 20 of 33, Avg BH Rate 60 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,8528,729 scf/Avg N2 Rate 30,608 scfm/ Total 20/40 300,402 lbs/ Total 16# Water Frac 1500 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 8,355', Perforate stage # 21 of 33, 8,132' to 8,343', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 21 of 33, Avg BH Rate 61 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,856,921 scf/Avg N2 Rate 30,784 scfm/ Total 20/40 301,400 lbs/ Total 14# Water Frac 1487 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 8,118', Perforate stage # 22 of 33, 7,892' to 8,102', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 22 of 33, Avg BH Rate 61 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,880,323 scf/Avg N2 Rate 29,264 scfm/ Total 20/40 302,450 lbs/ Total 14# Water Frac 1300 bbls.

09/01/2017:

- Pressure Test Lubricator to 2,500 psi.
- RIH with wireline, set CFP at 7,878', Perforate stage # 23 of 33, 7,652' to 7,862', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 23 of 33, Avg BH Rate 59 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,799,487 scf/Avg N2 Rate 30,393 scfm/ Total 20/40 30,393 lbs/ Total 12# Water Frac 1,315 bbls.
- Pressure Test Lubricator to 2,500 psi.
- RIH with wireline, set CFP at 7,638', Perforate stage # 24 of 33, 7,412' to 7,622', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 24 of 33, Avg BH Rate 59.1 Bpm/Avg Slurry Rate 25 Bpm/Avg N2 Quality 70%/ Total N2 1,541,525 scf/Avg N2 Rate 29,845 scfm/ Total 20/40 302,000 lbs/ Total 12# Water Frac 1,545 bbls.
- Pressure Test Lubricator to 2,500 psi.
- RIH with wireline, set CFP at 7,398', Perforate stage # 25 of 33, 7,172' to 7,380', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 25 of 33, Avg BH Rate 62 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,895,631 scf/Avg N2 Rate 30,490 scfm/ Total 20/40 287,700 lbs/ Total 12# Water Frac 1200 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 7,158', Perforate stage # 26 of 33, 6,932' to 7,142', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.

- Frac Stage # 26 of 33, Avg BH Rate 63 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,922,663 scf/Avg N2 Rate 31,602 scfm/ Total 20/40 291,338 lbs/ Total 12# Water Frac 1230 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 6,918', Perforate stage # 27 of 33, 6,692' to 6,903', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 27 of 33, Avg BH Rate 63 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,984,900 scf/Avg N2 Rate 31,872 scfm/ Total 20/40 302,400 lbs/ Total 12# Water Frac 1300 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 6,678', Perforate stage # 28 of 33, 6,452' to 6,663', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 28 of 33, Avg BH Rate 61 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,904,354 scf/Avg N2 Rate 30,804 scfm/ Total 20/40 300,200 lbs/ Total 12# Water Frac 1250 bbls.

09/02/2017:

- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 6,678', after setting plug guns went to ground, went through the motions and fired all guns, POOH with wireline, no shots fired, checked guns found that diode was shorted out, repair and RBIH with guns, Perforate stage # 29 of 33, 6,212' to 6,423', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 29 of 33, Avg BH Rate 59.2 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 69%/ Total N2 1,767,429 scf/Avg N2 Rate 29,185 scfm/ Total 20/40 298,700 lbs/ Total 10# Water Frac 1,452 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 6,198', Perforate stage # 30 of 33, 5,972' to 6,184', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 30 of 33, Avg BH Rate 59.2 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,791,007 scf/Avg N2 Rate 30,415 scfm/ Total 20/40 305,000 lbs/ Total 10# Water Frac 1,482 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 5,958', Perforate stage # 31 of 33, 5,732' to 5,943', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 31 of 33, Avg BH Rate 62 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,856,990 scf/Avg N2 Rate 30,918 scfm/ Total 20/40 306,346 lbs/ Total 12# Water Frac 1300 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 5,718', Perforate stage # 32 of 33, 5,492' to 5,702', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 32 of 33, Avg BH Rate 62 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,827,675 scf/Avg N2 Rate 30,154 scfm/ Total 20/40 300,402 lbs/ Total 12# Water Frac 1333 bbls.

- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 5,482', Perforate stage # 33 of 33, 5,256' to 5,462', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 33 of 33, Avg BH Rate 62 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,859,613 scf/Avg N2 Rate 29,787 scfm/ Total 20/40 305,542 lbs/ Total 12# Water Frac 1300 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH With Kill Plug Set it @ 5,230' WLM, pressure before set plug 755 psi, open well to OT with no returns and 0 psi.
- Begin RD all frac associated equipment @ report time.
- Prepare location for drillouts.

09/04/2017:

- Install BOP, flow cross, & annular. Pressure test blind shears 250 psi low & 4,500 psi high, chart the same, pressure test pipe rams 250 psi low & 4,500 psi high, chart the same, good test.
- POOH with 1 jt of 4 1/2" csg, land csg back in hanger. Unload 14,000' (542 jts) of 2 3/8" PH-6 tbg.
- PU 3 5/8" 5 blade reverse clutch mill, 2 3/8" PAC X 2 3/8" PH-6 bit sub with dart valve.
- RIH with tbg PU off of racks tallying, tag kill plug @ 5,241'.
- Begin pumping N2 down backside at 2,300 SCF per min unloading fluid.
- Tag kill plug. Begin DO Ops.

09/05/2017:

- DO CFP #1 through #5.

09/06/2017:

- DO plugs #6 thru #18.

09/07/2017:

- Drill CFP's #19 thru #33.

09/08/2017:

- Circulate well with 200 bbls fresh water, sweep on surface, had light sand & medium plug parts.
- Swivel out 2 jts, rack swivel back, continue POOH with tbg laying dwn to 5,897'.
- Continue POOH with tbg laying dwn to 1,291' and well started blowing, secure well. Pumped 100 bbls 10# brine, well on vacuum.
- Continue laying dwn tbg, laid dwn bit sub & mill. Start changing handling tools over for 4 1/2" csg.
- Begin Laying down 4 1/2' casing string, after jt 55 OOH well started to come around, secure and begin pumping 80 bbls of 10# brine, well on vacuum.
- Remove 4 1/2" pipe rams from BOP, install 2 7/8" pipe rams, remove 4 1/2" handling tool from rig, install 2 7/8" handling tools on rig.
- Load tbg on racks and tally, RIH with production tbg installing GLV's as per design, land EOT @ 5,299'. RD BOPs and WOR.

09/10/2017:

- Start injecting N2 dwn csg @ 1,000 scfm, well unloading fluid, well kicked off, shut dwn N2, continue flowing well.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

NOV 09 2017

Amended

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
N/A

SUBMIT IN TRIPLICATE - Other instructions on page 2

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: 1984' FSL and 1738' FWL Section 3, T23N, R9W
BHL: 2002' FSL and 891' FWL Section 33, T24N, R9W

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

NMNM 132981A

8. Well Name and No.

Nageezi Unit 405H

9. API Well No.

30-045-35841

10. Field and Pool or Exploratory Area

Nageezi Unit; Mancos (Oil)

11. Country 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"/> 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 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 must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat 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 08/19/2017 to 09/02/2017, which are detailed on the attachment enclosed.

Please note that this Sundry Notice is being resubmitted with the attached updated operations report to show additional casing pressure tests that were performed.

ACCEPTED FOR RECORD

OIL CONS. DIV DIST. 3

NOV 27 2017

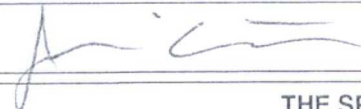
NOV 21 2017
FARMINGTON FIELD OFFICE
BY: 

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

Jevin Croteau

Title Senior Regulatory Analyst

Signature



Date

11/08/2017

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 405H API: 30-045-35841 Completions Sundry Information dated 09/29/2017:

07/07/2017:

- Nipple up BOP, R/U choke house, hook up lines, flow line, pits, power cables, flare line. Extend flow line w/ welder
- Test BOP, blind rams, HCR, pipe rams, kill valves, check valve, chock valves @ 250 low 10 mins 3000 high 10 mins; Annular 250 low 10 mins 2100 high 10 mins; Casing 1000psi for 30 mins; Function test accumulator and verified pre-charge pressure.

07/16/2017:

- WOC. P/U directional tools, orientate TIH dp from derrick, P/U agitater, start picking up pipe f/ racks. depth @ 2834'.
- Fill drill pipe circulate and rig up tester hold safety meeting.
- Pressure test casing to 1500# 30 min. Rig down tester.

07/22/2017:

- Load back side of 4 1/2" csg, press up to 1,500 psi, help good for 15 min, remove BOP, install frac stack, secure well.

08/19/2017:

- Press up on backside of 4 1/2" csg to 1,500 psi and monitor, press test line to 8,000 psi, test good.
- Pressure lines to 9,000 psi, open well, pressure test casing to 5,000 psi for 10 min, test good, start bringing press up in 500 psi increments till alpha sleeve opened @ 6,400 psi, brought rate up to 2 bpm pumped 40 bbls press @ 3,200 psi, increase rate to 4 bmp, pump 40 bbls press @ 3,950 psi, increase rate to 6 bpm, pump 40 bbls press @ 4,500 psi, increase rate to 8 bpm, 10 bbls in press spiked to 7,800 psi pump shut down holding press.
- Pressure test lines to 9,000 psi.
- Press up to 7,800 psi, open well, well had 8,300 psi, bled well to zero, also surged well 2 times while bleeding down, brought press back up to 8,500 psi would not break, secure well.

08/20/2017:

- Check csg press, had 8,600 psi, backside had 2,600 psi, bled both to 0 psi, remove frac stack.
- NU 5K double BOP, pressure test BOP 250 psi low & 4,500 psi high, test good, secure well.

08/21/2017:

- Check tbg press 0 psi, check csg press 0 psi, RU pump on tbg, pump 50 bbls to clear tbg, Drop ball, pump 44 bbls, press rose to 3,400 psi but circulation did not stop, felt for guns to fire and had no action, RU pump on csg, shut in tbg, press up on csg to 4,000 psi press held good, bled back to 0 psi, bled tbg to 0 psi, pump dwn tbg with 15 bbls, ball seated press rose to 3,300 psi, circulation stopped, press feel back to circulating press of 1,200 psi, first gun fired bottom shot @ 13,089' move tbg 35', bottom of middle shot @ 13,059', wait 7 min second gun fired, move tbg 35', bottom of top shot @ 13,029', wait 7 min third gun fired, had good indications all shots fired, pressured up on backside to 4,000 psi, press held, RD swivel, POOH with tbg laying dwn, laid dwn 36 jts, EOT @ 11,983', Secure well, SDFN

08/22/2017:

- Continue laying dwn tbg, laid dwn perf gun, all shots fired, ND BOP, Install frac stack, load out all auxiliary equipment, clean loc, Press test frac tree, 250 psi low & 8,500 psi high, chart the same, good test

08/28/2017:

- Press test fluid side lines to 9,500 psi, test good, test N2 lines to 9,500 psi, had leak on chicksan, replace chicksan, press test lines to 9,500 psi, test good, equalize and open well.

- 0 psi, bring pumps on line, press rose to 5,750 psi, broke back to 4,600 psi, increase rate to 25 bpm @ 5,600 psi, pump 1,000 gals 15% NEFE acid, acid on formation, press fell to 2,549 psi, Frac Stage # 1 of 33, Avg BH Rate 59.1 Bpm/Avg Slurry Rate-24 Bpm/Avg N2 Quality 70%/ Total N2- 105,285,9 scf/Avg N2 Rate- 27,862 scfm/ Total 20/40 151,000 lbs/ Total 20# Water Frac 1,282 bbls.
- Pressure Test Lubricator to 4500 psi.
- RIH with wireline, set CFP at 13,014', Perforate stage #2 of 33 12,774' to 12,999', 24 holes, log well out, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 2 of 33, Avg BH Rate 60 Bpm/Avg Slurry Rate 25 Bpm/Avg N2 Quality 70%/ Total N2 155,590,3 scf/Avg N2 Rate 29,319 scfm/ Total 20/40 250,800 lbs/ Total 20# Water Frac 1,364 bbls.
- Pressure Test Lubricator to 4500 psi.
- RIH with wireline, set CFP at 12,759', Perforate stage #3 of 33 12,518' to 12,759', 24 holes, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 3 of 33, Avg BH Rate 59 Bpm/Avg Slurry Rate 25 Bpm/Avg N2 Quality 70%/ Total N2 1,844,439 scf/Avg N2 Rate 30,287 scfm/ Total 20/40 305,400 lbs/ Total 20# Water Frac 1272 bbls.
- Pressure Test Lubricator to 4000 psi.
- RIH with wireline, set CFP at 12,503', Perforate stage #4 of 33 12,262' to 12,486', 24 holes, all shots fired.
- Press test frac lines to 9,450 psi.

08/29/2017:

- Complete Frac Stage # 4 of 33, Avg BH Rate 57.2 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 2,351,833 scf/Avg N2 Rate 28,490 scfm/ Total 20/40 300,400 lbs/ Total 20# Water Frac 2,278 bbls.
- Pressure Test Lubricator to 2,500 psi.
- RIH with wireline, set CFP at 12,247', Perforate stage #5 of 33 12,006' to 12,230', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 5 of 33, Avg BH Rate 58.4 Bpm/Avg Slurry Rate 25 Bpm/Avg N2 Quality 70%/ Total N2 1,736,907 scf/Avg N2 Rate 27,578 scfm/ Total 20/40 302,600 lbs/ Total 20# Water Frac 1,501 bbls.
- Pressure Test Lubricator to 2,500 psi.
- RIH with wireline, set CFP at 11,991', Perforate stage # 6 of 33 11,750' to 11,974', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 6 of 33, Avg BH Rate 59.3 Bpm/Avg Slurry Rate 59.3 Bpm/Avg N2 Quality 71%/ Total N2 1,839,773 scf/Avg N2 Rate 28,657 scfm/ Total 20/40 302,200 lbs/ Total 20# Water Frac 1,473 bbls.
- Pressure Test Lubricator to 2,500 psi.
- RIH with wireline, set CFP at 11,735', Perforate stage # 7 of 33 11,494' to 11,718', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 7 of 33, Avg BH Rate 61 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,913,970 scf/Avg N2 Rate 30,699 scfm/ Total 20/40 309,000 lbs/ Total 20# Water Frac 1471 bbls.

- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 11,479', Perforate stage # 8 of 33, 11,252' to 11,462', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 8 of 33, Avg BH Rate 59 Bpm/Avg Slurry Rate 25 Bpm/Avg N2 Quality 70%/ Total N2 1,939,212 scf/Avg N2 Rate 28,810 scfm/ Total 20/40 300,750 lbs/ Total 20# Water Frac 1315 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 11,238', Perforate stage # 9 of 33, 11,012' to 11,222', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 9 of 33, Avg BH Rate 61 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,798,667 scf/Avg N2 Rate 30,259 scfm/ Total 20/40 300,450 lbs/ Total 20# Water Frac 1653 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 10,998', Perforate stage # 10 of 33, 10,772' to 10,982', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 10 of 33, Avg BH Rate 61 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,822,832 scf/Avg N2 Rate 29,596 scfm/ Total 20/40 302,904 lbs/ Total 20# Water Frac 1460 bbls.

08/30/2017:

- Pressure Test Lubricator to 2,500 psi.
- RIH with wireline, set CFP at 10,758', Perforate stage # 11 of 33, 10,532' to 10,742', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 11 of 33, Avg BH Rate 59.8 Bpm/Avg Slurry Rate 25 Bpm/Avg N2 Quality 70%/ Total N2 1,897,160 scf/Avg N2 Rate 30,342 scfm/ Total 20/40 301,000 lbs/ Total 20# Water Frac 1,445 bbls.
- Pressure Test Lubricator to 3,000 psi.
- RIH with wireline, set CFP at 10,518', Perforate stage # 12 of 33, 10,292' to 10,502', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 12 of 33, Avg BH Rate 59.5 Bpm/Avg Slurry Rate 25 Bpm/Avg N2 Quality 70%/ Total N2 1,795,496 scf/Avg N2 Rate 30,316 scfm/ Total 20/40 301,000 lbs/ Total 20# Water Frac 1,548 bbls.
- Pressure Test Lubricator to 3,000 psi.
- RIH with wireline, set CFP at 10,278', Perforate stage # 13 of 33, 10,054' to 10,262', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 13 of 33, Avg BH Rate 56 Bpm/Avg Slurry Rate 25 Bpm/Avg N2 Quality 64%/ Total N2 1,757,743 scf/Avg N2 Rate 27,266 scfm/ Total 20/40 305.600 lbs/ Total 20# Water Frac 1,421 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 10,038', Perforate stage # 14 of 33, 9,812' to 10,022', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.

- Frac Stage # 14 of 33, Avg BH Rate 62 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,794,745 scf/Avg N2 Rate 30,366 scfm/ Total 20/40 299,400 lbs/ Total 16# Water Frac 1254 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 9,798', Perforate stage # 15 of 33, 9,572' to 9,782', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 15 of 33, Avg BH Rate 62 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,891,381 scf/Avg N2 Rate 31,143 scfm/ Total 20/40 302,400 lbs/ Total 16# Water Frac 1285 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 9,564', Perforate stage # 16 of 33, 9,332' to 9,542', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 16 of 33, Avg BH Rate 62 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,807,093 scf/Avg N2 Rate 30,358 scfm/ Total 20/40 300,120 lbs/ Total 16# Water Frac 1256 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 9,318', Perforate stage # 17 of 33, 9,092' to 9,302', 24 holes, POOH with wireline, all shots fired.

08/31/17:

- Press test frac lines to 9,500 psi.
- Frac Stage # 17 of 33, Avg BH Rate 59 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,801,097 scf/Avg N2 Rate 30,363 scfm/ Total 20/40 300,100 lbs/ Total 16# Water Frac 1,342 bbls.
- Pressure Test Lubricator to 2,500 psi.
- RIH with wireline, set CFP at 9,082', Perforate stage # 18 of 33, 8,852' to 9,063', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 18 of 33, Avg BH Rate 60.4 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,776,378 scf/Avg N2 Rate 30,447 scfm/ Total 20/40 XX lbs/ Total 14# Water Frac 1,502 bbls.
- Pressure Test Lubricator to 2,500 psi.
- RIH with wireline, set CFP at 8,840', Perforate stage # 19 of 33, 8,612' to 8,823', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 19 of 33, Avg BH Rate 62 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,859,610 scf/Avg N2 Rate 30,453 scfm/ Total 20/40 299,500 lbs/ Total 16# Water Frac 1192 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 8,598', Perforate stage # 20 of 33, 8,372' to 8,582', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 20 of 33, Avg BH Rate 60 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,8528,729 scf/Avg N2 Rate 30,608 scfm/ Total 20/40 300,402 lbs/ Total 16# Water Frac 1500 bbls.
- Pressure Test Lubricator to 3,500 psi.

- RIH with wireline, set CFP at 8,355', Perforate stage # 21 of 33, 8,132' to 8,343', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 21 of 33, Avg BH Rate 61 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,856,921 scf/Avg N2 Rate 30,784 scfm/ Total 20/40 301,400 lbs/ Total 14# Water Frac 1487 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 8,118', Perforate stage # 22 of 33, 7,892' to 8,102', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 22 of 33, Avg BH Rate 61 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,880,323 scf/Avg N2 Rate 29,264 scfm/ Total 20/40 302,450 lbs/ Total 14# Water Frac 1300 bbls.

09/01/2017:

- Pressure Test Lubricator to 2,500 psi.
- RIH with wireline, set CFP at 7,878', Perforate stage # 23 of 33, 7,652' to 7,862', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 23 of 33, Avg BH Rate 59 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,799,487 scf/Avg N2 Rate 30,393 scfm/ Total 20/40 30,393 lbs/ Total 12# Water Frac 1,315 bbls.
- Pressure Test Lubricator to 2,500 psi.
- RIH with wireline, set CFP at 7,638', Perforate stage # 24 of 33, 7,412' to 7,622', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 24 of 33, Avg BH Rate 59.1 Bpm/Avg Slurry Rate 25 Bpm/Avg N2 Quality 70%/ Total N2 1,541,525 scf/Avg N2 Rate 29,845 scfm/ Total 20/40 302,000 lbs/ Total 12# Water Frac 1,545 bbls.
- Pressure Test Lubricator to 2,500 psi.
- RIH with wireline, set CFP at 7,398', Perforate stage # 25 of 33, 7,172' to 7,380', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 25 of 33, Avg BH Rate 62 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,895,631 scf/Avg N2 Rate 30,490 scfm/ Total 20/40 287,700 lbs/ Total 12# Water Frac 1200 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 7,158', Perforate stage # 26 of 33, 6,932' to 7,142', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 26 of 33, Avg BH Rate 63 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,922,663 scf/Avg N2 Rate 31,602 scfm/ Total 20/40 291,338 lbs/ Total 12# Water Frac 1230 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 6,918', Perforate stage # 27 of 33, 6,692' to 6,903', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.

- Frac Stage # 27 of 33, Avg BH Rate 63 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,984,900 scf/Avg N2 Rate 31,872 scfm/ Total 20/40 302,400 lbs/ Total 12# Water Frac 1300 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 6,678', Perforate stage # 28 of 33, 6,452' to 6,663', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 28 of 33, Avg BH Rate 61 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,904,354 scf/Avg N2 Rate 30,804 scfm/ Total 20/40 300,200 lbs/ Total 12# Water Frac 1250 bbls.

09/02/2017:

- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 6,678', after setting plug guns went to ground, went through the motions and fired all guns, POOH with wireline, no shots fired, checked guns found that diode was shorted out, repair and RBIH with guns, Perforate stage # 29 of 33, 6,212' to 6,423', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 29 of 33, Avg BH Rate 59.2 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 69%/ Total N2 1,767,429 scf/Avg N2 Rate 29,185 scfm/ Total 20/40 298,700 lbs/ Total 10# Water Frac 1,452 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 6,198', Perforate stage # 30 of 33, 5,972' to 6,184', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 30 of 33, Avg BH Rate 59.2 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,791,007 scf/Avg N2 Rate 30,415 scfm/ Total 20/40 305,000 lbs/ Total 10# Water Frac 1,482 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 5,958', Perforate stage # 31 of 33, 5,732' to 5,943', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 31 of 33, Avg BH Rate 62 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,856,990 scf/Avg N2 Rate 30,918 scfm/ Total 20/40 306,346 lbs/ Total 12# Water Frac 1300 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 5,718', Perforate stage # 32 of 33, 5,492' to 5,702', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 32 of 33, Avg BH Rate 62 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,827,675 scf/Avg N2 Rate 30,154 scfm/ Total 20/40 300,402 lbs/ Total 12# Water Frac 1333 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 5,482', Perforate stage # 33 of 33, 5,256' to 5,462', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.

- Frac Stage # 33 of 33, Avg BH Rate 62 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,859,613 scf/Avg N2 Rate 29,787 scfm/ Total 20/40 305,542 lbs/ Total 12# Water Frac 1300 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH With Kill Plug Set it @ 5,230' WLM, pressure before set plug 755 psi,open well to OT with no returns and 0 psi.
- Begin RD all frac associated equipment @ report time.
- Prepare location for drillouts.

RECEIVED

Form 3160-5
(June 2015)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCT 02 2017

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.

Farmington Field Office
Bureau of Land Management5. Lease Serial No.
NMNM 8005
6. If Indian, Allottee or Tribe Name
N/A

SUBMIT IN TRIPLICATE - Other instructions on page 2

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: 1984' FSL and 1738' FWL Section 3, T23N, R9W
BHL: 2002' FSL and 891' FWL Section 33, T24N, R9W

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

NMNM 132981A

8. Well Name and No.

Nageezi Unit 405H

9. API Well No.

30-045-35841

10. Field and Pool or Exploratory Area

Nageezi Unit; Mancos (Oil)

11. Country 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"/> 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 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 must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat 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 detennined that the site is ready for final inspection.)

Encana Oil & Gas (USA) Inc. performed completion operations from 08/19/2017 to 09/02/2017, which are detailed on the attachment enclosed.

OIL CONS. DIV DIST. 3

OCT 10 2017

ACCEPTED FOR RECORD

OCT 05 2017

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

09/29/2017

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 405H API: 30-045-35841 Completions Sundry Information dated 09/29/2017:

07/22/2017:

- Load back side of 4 ½" csg, press up to 1,500 psi, help good for 15 min, remove BOP, install frac stack, secure well.

08/19/2017:

- Press up on backside of 4 ½" csg to 1,500 psi and monitor, press test line to 8,000 psi, test good.
- Pressure lines to 9,000 psi, open well, pressure test casing to 5,000 psi for 10 min, test good, start bringing press up in 500 psi increments till alpha sleeve opened @ 6,400 psi, brought rate up to 2 bpm pumped 40 bbls press @ 3,200 psi, increase rate to 4 bpm, pump 40 bbls press @ 3,950 psi, increase rate to 6 bpm, pump 40 bbls press @ 4,500 psi, increase rate to 8 bpm, 10 bbls in press spiked to 7,800 psi pump shut down holding press.
- Pressure test lines to 9,000 psi.
- Press up to 7,800 psi, open well, well had 8,300 psi, bled well to zero, also surged well 2 times while bleeding down, brought press back up to 8,500 psi would not break, secure well.

08/20/2017:

- Check csg press, had 8,600 psi, backside had 2,600 psi, bled both to 0 psi, remove frac stack.
- NU 5K double BOP, pressure test BOP 250 psi low & 4,500 psi high, test good, secure well.

08/21/2017:

- Check tbq press 0 psi, check csg press 0 psi, RU pump on tbq, pump 50 bbls to clear tbq, Drop ball, pump 44 bbls, press rose to 3,400 psi but circulation did not stop, felt for guns to fire and had no action, RU pump on csg, shut in tbq, press up on csg to 4,000 psi press held good, bled back to 0 psi, bled tbq to 0 psi, pump dwn tbq with 15 bbls, ball seated press rose to 3,300 psi, circulation stopped, press feel back to circulating press of 1,200 psi, first gun fired bottom shot @ 13,089' move tbq 35', bottom of middle shot @ 13,059', wait 7 min second gun fired, move tbq 35', bottom of top shot @ 13,029', wait 7 min third gun fired, had good indications all shots fired, pressured up on backside to 4,000 psi, press held, RD swivel, POOH with tbq laying dwn, laid dwn 36 jts, EOT @ 11,983', Secure well, SDFN

08/22/2017:

- Continue laying dwn tbq, laid dwn perf gun, all shots fired, ND BOP, Install frac stack, load out all auxiliary equipment, clean loc, Press test frac tree, 250 psi low & 8,500 psi high, chart the same, good test

08/28/2017:

- Press test fluid side lines to 9,500 psi, test good, test N2 lines to 9,500 psi, had leak on chicksan, replace chicksan, press test lines to 9,500 psi, test good, equalize and open well.
- 0 psi, bring pumps on line, press rose to 5,750 psi, broke back to 4,600 psi, increase rate to 25 bpm @ 5,600 psi, pump 1,000 gals 15% NEFE acid, acid on formation, press fell to 2,549 psi, Frac Stage # 1 of 33, Avg BH Rate 59.1 Bpm/Avg Slurry Rate-24 Bpm/Avg N2 Quality 70%/ Total N2- 105,285,9 scf/Avg N2 Rate- 27,862 scfm/ Total 20/40 151,000 lbs/ Total 20# Water Frac 1,282 bbls.
- Pressure Test Lubricator to 4500 psi.
- RIH with wireline, set CFP at 13,014', Perforate stage #2 of 33 12,774' to 12,999', 24 holes, log well out, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 2 of 33, Avg BH Rate 60 Bpm/Avg Slurry Rate 25 Bpm/Avg N2 Quality 70%/ Total N2 155,590,3 scf/Avg N2 Rate 29,319 scfm/ Total 20/40 250,800 lbs/ Total 20# Water Frac 1,364 bbls.

- Pressure Test Lubricator to 4500 psi.
- RIH with wireline, set CFP at 12,759', Perforate stage #3 of 33 12,518' to 12,759', 24 holes, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 3 of 33, Avg BH Rate 59 Bpm/Avg Slurry Rate 25 Bpm/Avg N2 Quality 70%/ Total N2 1,844,439 scf/Avg N2 Rate 30,287 scfm/ Total 20/40 305,400 lbs/ Total 20# Water Frac 1272 bbls.
- Pressure Test Lubricator to 4000 psi.
- RIH with wireline, set CFP at 12,503', Perforate stage #4 of 33 12,262' to 12,486', 24 holes, all shots fired.
- Press test frac lines to 9,450 psi.

08/29/2017:

- Complete Frac Stage # 4 of 33, Avg BH Rate 57.2 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 2,351,833 scf/Avg N2 Rate 28,490 scfm/ Total 20/40 300,400 lbs/ Total 20# Water Frac 2,278 bbls.
- Pressure Test Lubricator to 2,500 psi.
- RIH with wireline, set CFP at 12,247', Perforate stage #5 of 33 12,006' to 12,230', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 5 of 33, Avg BH Rate 58.4 Bpm/Avg Slurry Rate 25 Bpm/Avg N2 Quality 70%/ Total N2 1,736,907 scf/Avg N2 Rate 27,578 scfm/ Total 20/40 302,600 lbs/ Total 20# Water Frac 1,501 bbls.
- Pressure Test Lubricator to 2,500 psi.
- RIH with wireline, set CFP at 11,991', Perforate stage # 6 of 33 11,750' to 11,974', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 6 of 33, Avg BH Rate 59.3 Bpm/Avg Slurry Rate 59.3 Bpm/Avg N2 Quality 71%/ Total N2 1,839,773 scf/Avg N2 Rate 28,657 scfm/ Total 20/40 302,200 lbs/ Total 20# Water Frac 1,473 bbls.
- Pressure Test Lubricator to 2,500 psi.
- RIH with wireline, set CFP at 11,735', Perforate stage # 7 of 33 11,494' to 11,718', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 7 of 33, Avg BH Rate 61 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,913,970 scf/Avg N2 Rate 30,699 scfm/ Total 20/40 309,000 lbs/ Total 20# Water Frac 1471 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 11,479', Perforate stage # 8 of 33 11,252' to 11,462', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 8 of 33, Avg BH Rate 59 Bpm/Avg Slurry Rate 25 Bpm/Avg N2 Quality 70%/ Total N2 1,939,212 scf/Avg N2 Rate 28,810 scfm/ Total 20/40 300,750 lbs/ Total 20# Water Frac 1315 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 11,238', Perforate stage # 9 of 33, 11,012' to 11,222', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500-psi.

- Frac Stage # 9 of 33, Avg BH Rate 61 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,798,667 scf/Avg N2 Rate 30,259 scfm/ Total 20/40 300,450 lbs/ Total 20# Water Frac 1653 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 10,998', Perforate stage # 10 of 33, 10,772' to 10,982', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 10 of 33, Avg BH Rate 61 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,822,832 scf/Avg N2 Rate 29,596 scfm/ Total 20/40 302,904 lbs/ Total 20# Water Frac 1460 bbls.

08/30/2017:

- Pressure Test Lubricator to 2,500 psi.
- RIH with wireline, set CFP at 10,758', Perforate stage # 11 of 33, 10,532' to 10,742', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 11 of 33, Avg BH Rate 59.8 Bpm/Avg Slurry Rate 25 Bpm/Avg N2 Quality 70%/ Total N2 1,897,160 scf/Avg N2 Rate 30,342 scfm/ Total 20/40 301,000 lbs/ Total 20# Water Frac 1,445 bbls.
- Pressure Test Lubricator to 3,000 psi.
- RIH with wireline, set CFP at 10,518', Perforate stage # 12 of 33, 10,292' to 10,502', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 12 of 33, Avg BH Rate 59.5 Bpm/Avg Slurry Rate 25 Bpm/Avg N2 Quality 70%/ Total N2 1,795,496 scf/Avg N2 Rate 30,316 scfm/ Total 20/40 301,000 lbs/ Total 20# Water Frac 1,548 bbls.
- Pressure Test Lubricator to 3,000 psi.
- RIH with wireline, set CFP at 10,278', Perforate stage # 13 of 33, 10,054' to 10,262', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 13 of 33, Avg BH Rate 56 Bpm/Avg Slurry Rate 25 Bpm/Avg N2 Quality 64%/ Total N2 1,757,743 scf/Avg N2 Rate 27,266 scfm/ Total 20/40 305.600 lbs/ Total 20# Water Frac 1,421 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 10,038', Perforate stage # 14 of 33, 9,812' to 10,022', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 14 of 33, Avg BH Rate 62 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,794,745 scf/Avg N2 Rate 30,366 scfm/ Total 20/40 299,400 lbs/ Total 16# Water Frac 1254 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 9,798', Perforate stage # 15 of 33, 9,572' to 9,782', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 15 of 33, Avg BH Rate 62 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,891,381 scf/Avg N2 Rate 31,143 scfm/ Total 20/40 302,400 lbs/ Total 16# Water Frac 1285 bbls.
- Pressure Test Lubricator to 3,500 psi.

- RIH with wireline, set CFP at 9,564', Perforate stage # 16 of 33, 9,332' to 9,542', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 16 of 33, Avg BH Rate 62 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,807,093 scf/Avg N2 Rate 30,358 scfm/ Total 20/40 300,120 lbs/ Total 16# Water Frac 1256 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 9,318', Perforate stage # 17 of 33, 9,092' to 9,302', 24 holes, POOH with wireline, all shots fired.

08/31/17:

- Press test frac lines to 9,500 psi.
- Frac Stage # 17 of 33, Avg BH Rate 59 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,801,097 scf/Avg N2 Rate 30,363 scfm/ Total 20/40 300,100 lbs/ Total 16# Water Frac 1,342 bbls.
- Pressure Test Lubricator to 2,500 psi.
- RIH with wireline, set CFP at 9,082', Perforate stage # 18 of 33, 8,852' to 9,063', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 18 of 33, Avg BH Rate 60.4 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,776,378 scf/Avg N2 Rate 30,447 scfm/ Total 20/40 XX lbs/ Total 14# Water Frac 1,502 bbls.
- Pressure Test Lubricator to 2,500 psi.
- RIH with wireline, set CFP at 8,840', Perforate stage # 19 of 33, 8,612' to 8,823', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 19 of 33, Avg BH Rate 62 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,859,610 scf/Avg N2 Rate 30,453 scfm/ Total 20/40 299,500 lbs/ Total 16# Water Frac 1192 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 8,598', Perforate stage # 20 of 33, 8,372' to 8,582', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 20 of 33, Avg BH Rate 60 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,8528,729 scf/Avg N2 Rate 30,608 scfm/ Total 20/40 300,402 lbs/ Total 16# Water Frac 1500 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 8,355', Perforate stage # 21 of 33, 8,132' to 8,343', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 21 of 33, Avg BH Rate 61 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,856,921 scf/Avg N2 Rate 30,784 scfm/ Total 20/40 301,400 lbs/ Total 14# Water Frac 1487 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 8,118', Perforate stage # 22 of 33, 7,892' to 8,102', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.

- Frac Stage # 22 of 33, Avg BH Rate 61 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,880,323 scf/Avg N2 Rate 29,264 scfm/ Total 20/40 302,450 lbs/ Total 14# Water Frac 1300 bbls.

09/01/2017:

- Pressure Test Lubricator to 2,500 psi.
- RIH with wireline, set CFP at 7,878', Perforate stage # 23 of 33, 7,652' to 7,862', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 23 of 33, Avg BH Rate 59 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,799,487 scf/Avg N2 Rate 30,393 scfm/ Total 20/40 30,393 lbs/ Total 12# Water Frac 1,315 bbls.
- Pressure Test Lubricator to 2,500 psi.
- RIH with wireline, set CFP at 7,638', Perforate stage # 24 of 33, 7,412' to 7,622', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 24 of 33, Avg BH Rate 59.1 Bpm/Avg Slurry Rate 25 Bpm/Avg N2 Quality 70%/ Total N2 1,541,525 scf/Avg N2 Rate 29,845 scfm/ Total 20/40 302,000 lbs/ Total 12# Water Frac 1,545 bbls.
- Pressure Test Lubricator to 2,500 psi.
- RIH with wireline, set CFP at 7,398', Perforate stage # 25 of 33, 7,172' to 7,380', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 25 of 33, Avg BH Rate 62 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,895,631 scf/Avg N2 Rate 30,490 scfm/ Total 20/40 287,700 lbs/ Total 12# Water Frac 1200 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 7,158', Perforate stage # 26 of 33, 6,932' to 7,142', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 26 of 33, Avg BH Rate 63 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,922,663 scf/Avg N2 Rate 31,602 scfm/ Total 20/40 291,338 lbs/ Total 12# Water Frac 1230 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 6,918', Perforate stage # 27 of 33, 6,692' to 6,903', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 27 of 33, Avg BH Rate 63 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,984,900 scf/Avg N2 Rate 31,872 scfm/ Total 20/40 302,400 lbs/ Total 12# Water Frac 1300 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 6,678', Perforate stage # 28 of 33, 6,452' to 6,663', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 28 of 33, Avg BH Rate 61 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,904,354 scf/Avg N2 Rate 30,804 scfm/ Total 20/40 300,200 lbs/ Total 12# Water Frac 1250 bbls.

09/02/2017:

- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 6,678', after setting plug guns went to ground, went through the motions and fired all guns, POOH with wireline, no shots fired, checked guns found that diode was shorted out, repair and RBIH with guns, Perforate stage # 29 of 33, 6,212' to 6,423', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 29 of 33, Avg BH Rate 59.2 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 69%/ Total N2 1,767,429 scf/Avg N2 Rate 29,185 scfm/ Total 20/40 298,700 lbs/ Total 10# Water Frac 1,452 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 6,198', Perforate stage # 30 of 33, 5,972' to 6,184', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 30 of 33, Avg BH Rate 59.2 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,791,007 scf/Avg N2 Rate 30,415 scfm/ Total 20/40 305,000 lbs/ Total 10# Water Frac 1,482 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 5,958', Perforate stage # 31 of 33, 5,732' to 5,943', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 31 of 33, Avg BH Rate 62 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,856,990 scf/Avg N2 Rate 30,918 scfm/ Total 20/40 306,346 lbs/ Total 12# Water Frac 1300 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 5,718', Perforate stage # 32 of 33, 5,492' to 5,702', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 32 of 33, Avg BH Rate 62 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,827,675 scf/Avg N2 Rate 30,154 scfm/ Total 20/40 300,402 lbs/ Total 12# Water Frac 1333 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH with wireline, set CFP at 5,482', Perforate stage # 33 of 33, 5,256' to 5,462', 24 holes, POOH with wireline, all shots fired.
- Press test frac lines to 9,500 psi.
- Frac Stage # 33 of 33, Avg BH Rate 62 Bpm/Avg Slurry Rate 24 Bpm/Avg N2 Quality 70%/ Total N2 1,859,613 scf/Avg N2 Rate 29,787 scfm/ Total 20/40 305,542 lbs/ Total 12# Water Frac 1300 bbls.
- Pressure Test Lubricator to 3,500 psi.
- RIH With Kill Plug Set it @ 5,230' WLM, pressure before set plug 755 psi, open well to OT with no returns and 0 psi.
- Begin RD all frac associated equipment @ report time.
- Prepare location for drillouts.