

FORM
5A

Rev
06/12

State of Colorado

Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



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Document Number:

401745431

Date Received:

05/29/2020

COMPLETED INTERVAL REPORT

The completed interval Report, Form 5A, shall be submitted within thirty (30) days of completing a formation (successful or not), when a formation is temporarily abandoned or permanently abandoned, for a recompletion, reperforation or restimulation, or when a formation is commingled. Fill out a section for each formation. Attach as many pages as required to fully describe the work. List in order of completion.

1. OGCC Operator Number: 10177
2. Name of Operator: ENERPLUS RESOURCES (USA) CORPORATION
3. Address: 950 17TH STREET #2200
City: DENVER State: CO Zip: 80202
4. Contact Name: Carolyn Nunez
Phone: (720) 279-5583
Fax:
Email: cnunez@enerplus.com

5. API Number 05-123-44921-00
6. County: WELD
7. Well Name: SLIGO
Well Number: 8-67-26-23C
8. Location: QtrQtr: SWSE Section: 26 Township: 8N Range: 67W Meridian: 6
9. Field Name: DJ HORIZONTAL NBRR-FTHYS- Field Code: 16953

Completed Interval

FORMATION: CODELL Status: PRODUCING Treatment Type: FRACTURE STIMULATION

Treatment Date: 06/30/2018 End Date: 07/14/2018 Date of First Production this formation: 08/04/2018

Perforations Top: 7914 Bottom: 17206 No. Holes: 1379 Hole size: 0.42

Provide a brief summary of the formation treatment:

Open Hole: ☐

Completed Interval : 7,914' - 8,207'; 8,697' - 9,436'; 9,677' - 10,543'; 10,750' - 12,071'; 12,146' - 12,755'; 12,900' - 15,234'; 15,460; - 17,206'

This formation is commingled with another formation: ☒ Yes ☐ No

Total fluid used in treatment (bbl):

Max pressure during treatment (psi):

Total gas used in treatment (mcf):

Fluid density at initial fracture (lbs/gal):

Type of gas used in treatment:

Min frac gradient (psi/ft):

Total acid used in treatment (bbl):

Number of staged intervals:

Recycled water used in treatment (bbl):

Flowback volume recovered (bbl):

Fresh water used in treatment (bbl):

Disposition method for flowback:

Total proppant used (lbs):

Rule 805 green completion techniques were utilized: ☐

Reason why green completion not utilized:

Fracture stimulations must be reported on FracFocus.org

Test Information:

Date: Hours: Bbl oil: Mcf Gas: Bbl H2O:

Calculated 24 hour rate: Bbl oil: Mcf Gas: Bbl H2O: GOR:

Test Method: Casing PSI: Tubing PSI: Choke Size:

Gas Disposition: Gas Type: Btu Gas: API Gravity Oil:

Tubing Size: Tubing Setting Depth: Tbg setting date: Packer Depth:

Reason for Non-Production:

Date formation Abandoned: Squeeze: ☐ Yes ☐ No If yes, number of sacks cmt

** Bridge Plug Depth: ** Sacks cement on top: ** Wireline and Cement Job Summary must be attached.

FORMATION: FORT HAYS Status: PRODUCING Treatment Type: FRACTURE STIMULATION

Treatment Date: 06/30/2018 End Date: 07/14/2018 Date of First Production this formation: 08/04/2018

Perforations Top: 8525 Bottom: 15445 No. Holes: 172 Hole size: 0.42

Provide a brief summary of the formation treatment: Open Hole: ☐

Completed Interval: 8,525' - 8,679'; 9,450' - 9,660'; 10,556' - 10,730'; 12,086' - 12,856; 15,250; - 15,445'

This formation is commingled with another formation: ☒ Yes ☐ No

Total fluid used in treatment (bbl): _____

Max pressure during treatment (psi): _____

Total gas used in treatment (mcf): _____

Fluid density at initial fracture (lbs/gal): _____

Type of gas used in treatment: _____

Min frac gradient (psi/ft): _____

Total acid used in treatment (bbl): _____

Number of staged intervals: _____

Recycled water used in treatment (bbl): _____

Flowback volume recovered (bbl): _____

Fresh water used in treatment (bbl): _____

Disposition method for flowback: _____

Total proppant used (lbs): _____

Rule 805 green completion techniques were utilized: ☐

Reason why green completion not utilized: _____

Fracture stimulations must be reported on FracFocus.org

Test Information:

Date: _____ Hours: _____ Bbl oil: _____ Mcf Gas: _____ Bbl H2O: _____

Calculated 24 hour rate: _____ Bbl oil: _____ Mcf Gas: _____ Bbl H2O: _____ GOR: _____

Test Method: _____ Casing PSI: _____ Tubing PSI: _____ Choke Size: _____

Gas Disposition: _____ Gas Type: _____ Btu Gas: _____ API Gravity Oil: _____

Tubing Size: _____ Tubing Setting Depth: _____ Tbg setting date: _____ Packer Depth: _____

Reason for Non-Production: _____

Date formation Abandoned: _____ Squeeze: ☐ Yes ☐ No If yes, number of sacks cmt _____

** Bridge Plug Depth: _____ ** Sacks cement on top: _____ ** Wireline and Cement Job Summary must be attached.

FORMATION: NIOBRARA-FT HAYS-CODELL		Status: COMMINGLED		Treatment Type: FRACTURE STIMULATION	
Treatment Date: 06/30/2018		End Date: 07/14/2018		Date of First Production this formation: 08/04/2018	
Perforations	Top: 7914	Bottom: 17206	No. Holes: 1601	Hole size: 0.42	
Provide a brief summary of the formation treatment:			Open Hole: <input type="checkbox"/>		
40 stages, 3,281,580 lbs 100Mesh white sand, 5,572,540 lbs 30/50 mesh regional sand, 1,136,380 lbs 30/50 white sand, 224,996 bbls Slickwater, 20,300 gal 15% concentration HCL acid.					
This formation is commingled with another formation:			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Total fluid used in treatment (bbl): 225479		Max pressure during treatment (psi): 8251			
Total gas used in treatment (mcf):		Fluid density at initial fracture (lbs/gal): 8.34			
Type of gas used in treatment:		Min frac gradient (psi/ft): 80.90			
Total acid used in treatment (bbl): 483		Number of staged intervals: 40			
Recycled water used in treatment (bbl):		Flowback volume recovered (bbl): 21769			
Fresh water used in treatment (bbl): 224996		Disposition method for flowback: DISPOSAL			
Total proppant used (lbs): 9990500		Rule 805 green completion techniques were utilized: <input type="checkbox"/>			
Reason why green completion not utilized: PIPELINE					
Fracture stimulations must be reported on FracFocus.org					
Test Information:					
Date: 08/01/2018	Hours: 24	Bbl oil: 258	Mcf Gas: 162	Bbl H2O: 1084	
Calculated 24 hour rate:	Bbl oil: 258	Mcf Gas: 162	Bbl H2O: 1084	GOR: 628	
Test Method: Flowback	Casing PSI: 0	Tubing PSI: 740	Choke Size: 20/64		
Gas Disposition: FLARED	Gas Type: DRY	Btu Gas: 1475	API Gravity Oil: 40		
Tubing Size: 2 + 3/8	Tubing Setting Depth: 7511	Tbg setting date: 07/27/2018	Packer Depth: 7498		
Reason for Non-Production: <div style="border: 1px solid black; height: 20px; width: 100%;"></div>					
Date formation Abandoned:	Squeeze: <input type="checkbox"/> Yes <input type="checkbox"/> No	If yes, number of sacks cmt			
** Bridge Plug Depth:		** Sacks cement on top:		** Wireline and Cement Job Summary must be attached.	

FORMATION: NIOBRARA Status: PRODUCING Treatment Type: FRACTURE STIMULATION

Treatment Date: 06/30/2018 End Date: 07/14/2018 Date of First Production this formation: 08/04/2018

Perforations Top: 8219 Bottom: 8509 No. Holes: 50 Hole size: 0.42

Provide a brief summary of the formation treatment: Open Hole: ☐

Completed Interval: 8,219' - 8,509'

This formation is commingled with another formation: ☒ Yes ☐ No

Total fluid used in treatment (bbl): _____ Max pressure during treatment (psi): _____

Total gas used in treatment (mcf): _____ Fluid density at initial fracture (lbs/gal): _____

Type of gas used in treatment: _____ Min frac gradient (psi/ft): _____

Total acid used in treatment (bbl): _____ Number of staged intervals: _____

Recycled water used in treatment (bbl): _____ Flowback volume recovered (bbl): _____

Fresh water used in treatment (bbl): _____ Disposition method for flowback: _____

Total proppant used (lbs): _____ Rule 805 green completion techniques were utilized: ☐

Reason why green completion not utilized: _____

Fracture stimulations must be reported on FracFocus.org

Test Information:

Date: _____ Hours: _____ Bbl oil: _____ Mcf Gas: _____ Bbl H2O: _____

Calculated 24 hour rate: _____ Bbl oil: _____ Mcf Gas: _____ Bbl H2O: _____ GOR: _____

Test Method: _____ Casing PSI: _____ Tubing PSI: _____ Choke Size: _____

Gas Disposition: _____ Gas Type: _____ Btu Gas: _____ API Gravity Oil: _____

Tubing Size: _____ Tubing Setting Depth: _____ Tbg setting date: _____ Packer Depth: _____

Reason for Non-Production: _____

Date formation Abandoned: _____ Squeeze: ☐ Yes ☐ No If yes, number of sacks cmt _____

** Bridge Plug Depth: _____ ** Sacks cement on top: _____ ** Wireline and Cement Job Summary must be attached.

Comment:

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: _____ Print Name: Carolyn Nunez

Title: Drilling Eng Tech Date: 5/29/2020 Email: cnunez@enerplus.com

Attachment List

Att Doc Num	Name
401745431	FORM 5A SUBMITTED
401748454	WELLBORE DIAGRAM

Total Attach: 2 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Pass.	11/18/2020
Permit	Production reporting missing 4/1/2018, 5/1/2018, 8/2019, 6/2020. Corrected status on production reporting. Number of July 2018 days still suspect. Corrected joint formation panel name. Incorrect choke size. Corrected GOR and choke size per operator.	10/13/2020
Engineer	Form 7 for March '18 - spud date in April - conductor may have been set in March - missing April and May 2018; August 2019 - perforations for each formation need review and stimulaion details are identical in each panel - refer to guidance	04/16/2020
Engineer	rt'd to DRAFT for possible correction (Form 5 incomplete) rt'd back to DRAFT - Tubing setting depth is 387' above the packer – is that correct for the Sligo? Actually those depths differ across the panels. Form 7 not back to spud Form 7 shows 31 days PR July 2018 – 5A says treatment started 6/30 and ended 7/17/18 – do not typically see wells produce until after flowback.	05/02/2019
Permit	Referred for enforcement.	04/02/2019

Total: 5 comment(s)