

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5957714

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT		
<b>NATURE OF CONVEYANCE:</b>	FIRST LIEN INTELLECTUAL PROPERTY SECURITY AGREEMENT		
<b>CONVEYING PARTY DATA</b>			
<b>Name</b>			<b>Execution Date</b>
RS ENERGY GROUP TOPCO, INC.			02/11/2020
<b>RECEIVING PARTY DATA</b>			
<b>Name:</b>	GOLUB CAPITAL MARKETS LLC		
<b>Street Address:</b>	100 SOUTH WACKER DRIVE		
<b>City:</b>	CHICAGO		
<b>State/Country:</b>	ILLINOIS		
<b>Postal Code:</b>	60606		
<b>PROPERTY NUMBERS Total: 4</b>			
<b>Property Type</b>	<b>Number</b>		
<b>Patent Number:</b>	10260319		
<b>Application Number:</b>	16688268		
<b>Application Number:</b>	62843774		
<b>Application Number:</b>	16395608		
<b>CORRESPONDENCE DATA</b>			
<b>Fax Number:</b>	(212)751-4864		
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>			
<b>Phone:</b>	212-906-1216		
<b>Email:</b>	angela.amaru@lw.com		
<b>Correspondent Name:</b>	LATHAM & WATKINS LLP C/O ANGELA M. AMARU		
<b>Address Line 1:</b>	885 THIRD AVENUE		
<b>Address Line 4:</b>	NEW YORK, NEW YORK 10022		
<b>ATTORNEY DOCKET NUMBER:</b>	053644-0167		
<b>NAME OF SUBMITTER:</b>	ANGELA M. AMARU		
<b>SIGNATURE:</b>	/s/ Angela M. Amaru		
<b>DATE SIGNED:</b>	02/11/2020		
<b>Total Attachments: 5</b>			
source=Rho (DI - Genstar) -1L Patent Security Agreement#page1.tif			
source=Rho (DI - Genstar) -1L Patent Security Agreement#page2.tif			
source=Rho (DI - Genstar) -1L Patent Security Agreement#page3.tif			

source=Rho (DI - Genstar) -1L Patent Security Agreement#page4.tif

source=Rho (DI - Genstar) -1L Patent Security Agreement#page5.tif

FIRST LIEN INTELLECTUAL PROPERTY SECURITY AGREEMENT

This FIRST LIEN INTELLECTUAL PROPERTY SECURITY AGREEMENT is entered into as of February 11, 2020, (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, this “Agreement”), by RS Energy Group Topco, Inc., a Delaware corporation (the “Grantor”), in favor of Golub Capital Markets LLC, in its capacities as administrative agent for the Lenders and as collateral agent for the Secured Parties (together with its successors in such capacities, the “Agent”).

Reference is made to that certain First Lien Pledge and Security Agreement, dated as of July 30, 2018 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the “Security Agreement”), among the Grantor the other grantors party thereto and the Agent, pursuant to which the Grantor has granted a security interest to the Agent in the IP Collateral (as defined below) and is required to execute and deliver this Agreement. Consistent with the requirements set forth in Section 4.03(c) of the Security Agreement, the parties hereto agree as follows:

**SECTION 1. Terms.** Capitalized terms used in this Agreement and not otherwise defined herein have the meanings assigned to them (including by reference to other agreements) in the Security Agreement.

**SECTION 2. Grant of Security Interest.** As security for the prompt and complete payment or performance, as the case may be, in full of the Secured Obligations, the Grantor, pursuant to the Security Agreement, hereby grants to the Agent, its successors and permitted assigns, on behalf of and for the ratable benefit of the Secured Parties, a security interest in all of its right, title and interest in and to all of the following personal property, whether now owned by or owing to or hereafter acquired by or arising in favor of the Grantor (collectively, the “IP Collateral”):

- A. all issued Patents and pending Patent applications in the United States Patent and Trademark Office listed on Schedule I hereto;
- B. the right to sue or otherwise recover for past, present and future infringements or other violations or impairments of any of the foregoing, including the right to settle suits involving claims and demands for royalties owing; and
- C. all Proceeds of the foregoing, including all income, royalties, damages, claims and payments now or hereafter due and/or payable under any of the foregoing, including damages, claims or payments for past or future infringements or other violations or impairments of any of the foregoing.

Notwithstanding the foregoing, the term “IP Collateral” (and any component definition thereof) shall not include any Excluded Asset. Notwithstanding anything to the contrary contained herein, immediately upon the ineffectiveness, lapse or termination of any restriction or condition set forth in the definition of “Excluded Assets” in the Credit Agreement, the IP Collateral shall include, and the relevant Grantor shall be deemed to have automatically granted a security interest in, all relevant previously restricted or conditioned rights, interests or other assets, as the case may be, as if such restriction or condition had never been in effect.

**SECTION 3. Security Agreement.** The security interests granted to the Agent herein are granted in furtherance, and not in limitation of, the security interests granted to the Agent pursuant to the Security Agreement. The Grantor hereby acknowledges and affirms that the rights and remedies of the Agent with respect to the IP Collateral are more fully set forth in the Security Agreement, the terms and provisions of which are hereby incorporated herein by reference as if fully set forth herein. In the event of any conflict between the terms of this Agreement and the Security Agreement, the terms of the Security Agreement shall govern.

SECTION 4. **Governing Law.** This Agreement and any claim, controversy or dispute arising under or related to this Agreement, whether in tort, contract (at law or in equity) or otherwise, shall be governed by, and construed and interpreted in accordance with, the laws of the State of New York.

SECTION 5. **Termination or Release.** (a) This Agreement shall continue in effect until the Termination Date, and the Liens granted by the Grantor hereunder shall be automatically released and the Grantor shall automatically be released from its obligations hereunder in the circumstances described in Article 8 and Section 9.22 of the Credit Agreement.

(b) In connection with any termination or release pursuant to paragraph (a) above, the Agent shall promptly execute (if applicable) and deliver to the Grantor, at the Grantor's expense, all UCC termination statements and similar documents (including security interest termination and release agreements for filing with the United States Patent and Trademark Office) that the Grantor shall reasonably request to evidence and/or effectuate such termination or release. Any execution and delivery of documents pursuant to this Section 5 shall be without recourse to or representation or warranty by the Agent or any other Secured Party. The Grantor shall reimburse the Agent for all costs and expenses, including any fees and expenses of counsel, incurred by it in connection with any action contemplated by this Section 5 pursuant to and to the extent required by Section 9.03(a) of the Credit Agreement.

(c) The Agent shall have no liability whatsoever to any other Secured Party as the result of any release of IP Collateral by it in accordance with (or which the Agent in good faith believes to be in accordance with) the terms of this Section 5.

SECTION 6. **Counterparts.** This Agreement may be executed in one or more counterparts and by different parties hereto in separate counterparts, each of which when so executed and delivered shall be deemed an original, but all such counterparts together shall constitute but one and the same instrument. Delivery of an executed counterpart of a signature page to this Agreement by facsimile or by email as a ".pdf" or ".tif" attachment or other electronic transmission shall be effective as delivery of a manually executed counterpart of this Agreement.

SECTION 7. **INTERCREDITOR AGREEMENT GOVERNS.** NOTWITHSTANDING ANYTHING HEREIN TO THE CONTRARY, THE LIENS AND SECURITY INTERESTS GRANTED TO THE AGENT FOR THE BENEFIT OF THE SECURED PARTIES PURSUANT TO THIS AGREEMENT AND THE EXERCISE OF ANY RIGHT OR REMEDY BY THE AGENT AND THE OTHER SECURED PARTIES WITH RESPECT TO ANY IP COLLATERAL HEREUNDER ARE SUBJECT TO THE PROVISIONS OF THE INTERCREDITOR AGREEMENT AND EACH APPLICABLE ACCEPTABLE INTERCREDITOR AGREEMENT. IN THE EVENT OF ANY CONFLICT BETWEEN THE PROVISIONS OF THE INTERCREDITOR AGREEMENT (OR ANY APPLICABLE ACCEPTABLE INTERCREDITOR AGREEMENT) AND THIS AGREEMENT, THE PROVISIONS OF THE INTERCREDITOR AGREEMENT (OR SUCH ACCEPTABLE INTERCREDITOR AGREEMENT, AS APPLICABLE) SHALL GOVERN AND CONTROL.

[Signature Pages Follow]

IN WITNESS WHEREOF, the parties hereto have duly executed this Agreement as of the day and year first above written.

**RS ENERGY GROUP TOPCO, INC.,**  
as a Grantor

DocuSigned by:  
  
By: \_\_\_\_\_  
Name: Shawn Shillington  
Title: Secretary

[Signature Page to First Lien Intellectual Property Security Agreement]

**PATENT**  
**REEL: 051894 FRAME: 0886**

ACCEPTED AND AGREED  
as of the date first above written:

GOLUB CAPITAL MARKETS LLC,  
as Agent

By: 

Name: Robert G. Tuchscherer

Title: Managing Director

Signature Page to First Lien Intellectual Property Security Agreement

**PATENT**  
**REEL: 051894 FRAME: 0887**

## **SCHEDULE I**

### U.S. PATENTS AND PATENT APPLICATIONS

	<b>Title</b>	<b>Application Number</b>	<b>Filing Date</b>	<b>Patent (Publication) Number</b>	<b>Issue (Publication) Date</b>	<b>Record Owner</b>
1.	Method For Estimating Oil/Gas Production Using Statistical Learning Models	15/426,761	2/7/2017	10260319	4/16/2019	RS Energy Group Topco, Inc.
2.	System and method to generate wellbore trajectories	16/688,268	11/19/2019	N/A	N/A	RS Energy Group Topco, Inc.
3.	System and method for well interference detection and prediction	62/843,774	5/6/2019	N/A	N/A	RS Energy Group Topco, Inc.
4.	System and method for oil and gas well predictive analytics	16/395,608	4/26/2019	N/A	N/A	RS Energy Group Topco, Inc.