IN THE UNITED STATES DISTRICT COURT FOR THE WESTERN DISTRICT OF TEXAS AUSTIN DIVISION

NATIONAL OILWELL VARCO, L.P.	§	
Plaintiff,	§ §	
V.	§ §	CIVIL ACTION NO. 1:12-CV-00773-SS
OMRON OILFIELD & MARINE, INC.,	§ §	
Defendant.	\$ \$	

NATIONAL OILWELL VARCO, L.P.'S PROPOSED CLAIM CONSTRUCTION FOR IDENTIFIED CLAIM TERMS AND PHRASES

Claim Terms	NOV's Proposed Claim Construction
1. "drill string" (claims 1, 11 and 14)	Needs no construction. This term and/or phrase should be given its ordinary and customary meaning because it is readily understood by a person of ordinary skill in the art at the time of the invention. ¹
2. "drill bit" (claims 1 and 11)/	Needs no construction. This term and/or phrase should be given its ordinary and customary meaning because it is readily understood by a person of ordinary skill in the art at the time of the invention.
"bit" (claim 14)	
3. "drilling fluid"	Needs no construction. This term and/or phrase should be given its ordinary and customary meaning because it is readily understood by a person of ordinary skill in the

¹ There is a "'heavy presumption' that a claim term carries its ordinary and customary meaning." *CCS Fitness, Inc. v. Brunswick Corp.*, 288 F.3d 1359, 1366 (Fed. Cir. 2002) (citation omitted). In such circumstance, a court often is not required to provide a new definition or rewrite a term. *Phillips v. AWH Corp.*, 415 F.3d 1303, 1314 (Fed. Cir. 2005)(en banc)("In some cases, the ordinary meaning of claim language as understood by a person of skill in the art may be readily apparent even to lay judges, and claim construction in such cases involves little more than the application of the widely accepted meaning of commonly understood words.")

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Claim Terms	NOV's Proposed Claim Construction
(claims 1, 11 and 14)	art at the time of the invention.
4. "drilling fluid pressure" (claims 1, 11 and 14)	Needs no construction. This term and/or phrase should be given its ordinary and customary meaning because it is readily understood by a person of ordinary skill in the art at the time of the invention.
5. "drilling fluid pressure sensor" (claim 1)	Needs no construction. This term and/or phrase should be given its ordinary and customary meaning because it is readily understood by a person of ordinary skill in the art at the time of the invention.
6. "drilling fluid pressure regulator" (claim 1)	Needs no construction. This term and/or phrase should be given its ordinary and customary meaning because it is readily understood by a person of ordinary skill in the art at the time of the invention.
	Alternative construction: A drilling fluid (i.e., mud) pressure regulator, e.g., a device that is capable of detecting and responding to electrical, mechanical, hydraulic, or pneumatic signal(s).
7. "coupled to"	Connected to.
(claim 1)	
8. "changes in drilling fluid pressure"	Needs no construction. This term and/or phrase should be given its ordinary and
(claims 1, 11 and 14) /	customary meaning because it is readily understood by a person of ordinary skill in the art at the time of the invention.
"changes in bit weight"	<u></u>
(claim 14)	
9. "a signal representing those changes"	Needs no construction. This term and/or phrase should be given its ordinary and
(claim 1) /	customary meaning because it is readily understood by a person of ordinary skill in the art at the time of the invention.
"said signal representing the changes in drilling fluid pressure"	
(claim 11) /	
"said first signal representing the changes	

<u>Claim Terms</u>	NOV's Proposed Claim Construction
in drilling fluid pressure" (claim 14) / "said second signal representing the changes in bit weight" (claim 14) 10. "relay" (claim 1)	Needs no construction. This term and/or phrase should be given its ordinary and customary meaning because it is readily understood by a person of ordinary skill in the art at the time of the invention. Alternative construction: "To convey" or "transmitting," i.e., pass on or passing through the chasen signal or signals.
11. "said relay responsive to the output signal of said drilling fluid pressure regulator to supply a drill string control signal at an output thereof" (claim 1) 12. "drill string control signal" (claim 1)	Needs no construction. This term and/or phrase should be given its ordinary and customary meaning because it is readily understood by a person of ordinary skill in the art at the time of the invention. Alternative construction: A device that communicates, conveys, or imparts an electrical, mechanical, hydraulic, or pneumatic signal to, e.g., control the rig's hoisting system. Needs no construction. This term and/or phrase should be given its ordinary and customary meaning because it is readily understood by a person of ordinary skill in the art at the time of the invention.
13. "drill string controller" (claims 1, 11 and 14)	Alternative construction: A signal used to control the rate of release of the drill string. Needs no construction. This term and/or phrase should be given its ordinary and customary meaning because it is readily understood by a person of ordinary skill in the art at the time of the invention. Alternative construction: A device that controls the rate of release of the drill string.
14. "rate of release of said drill string"	Rate of lowering the drill string.

<u>Claim Terms</u>	NOV's Proposed Claim Construction
(claims 1 and 11)	
15. "a decrease in drilling fluid pressure results in said relay supplying a drill string control signal that operates said drill string controller to effect an increase in the rate of release of said string" /	Needs no construction. This term and/or phrase should be given its ordinary and customary meaning because it is readily understood by a person of ordinary skill in the art at the time of the invention.
"an increase in drilling fluid pressure results in said relay supplying a drill string control signal that operates said drill string controller to effect a decrease in the rate of release of said drill string"	Alternative construction of "results": To proceed or arise as a consequence, effect, or conclusion.
(claim 1)	Alternative construction of "relay": "To convey" or "transmitting," i.e., pass on or passing through the chosen signal or signals.
16. "with direct effect at the drill bit associated with the drill string" (claims 1 and 11)	Needs no construction. This term and/or phrase should be given its ordinary and customary meaning because it is readily understood by a person of ordinary skill in the art at the time of the invention.
17. "producing a signal in response to changes in drilling fluid pressure" (claim 11) /	Needs no construction. This term and/or phrase should be given its ordinary and customary meaning because it is readily understood by a person of ordinary skill in the art at the time of the invention.
"producing a first signal in response to changes in drilling fluid pressure" (claim 14)/	Alternative construction: To create, generate, produce a signal in response something said signal representing changes (in drilling fluid pressure or
"producing a second signal in response to changes in bit weight"	weight).
(claim 14)	
18. "relying [sic] said signal to a drill string controller"	Needs no construction. This term and/or phrase should be given its ordinary and customary meaning because it is readily understood by a person of ordinary skill in the
(claim 11) /	art at the time of the invention.
"relaying said selected signal or signals to	Alternative construction: To communicate, convey, or impart an electrical,

<u>Claim Terms</u>	NOV's Proposed Claim Construction
a drill string controller"	mechanical, hydraulic, or pneumatic signal to a drill string controller.
(claim 14)	
19. "controlling said drill string controller to increase the rate of release of said drill string when said signal represents a decrease in drilling fluid pressure" /	Needs no construction. This term and/or phrase should be given its ordinary and customary meaning because it is readily understood by a person of ordinary skill in the art at the time of the invention.
"to decrease the rate of release of said drill string when said signal represents an increase in drilling fluid pressure"	Alternative construction of "rate of release": The rate (i.e., speed or change over time) of release (lowering).
(claim 11)	
20. "bit weight" (claim 14)	Needs no construction. This term and/or phrase should be given its ordinary and customary meaning because it is readily understood by a person of ordinary skill in the art at the time of the invention.
21. "selecting any one of said first signal, said second signal, and both said first and said second signals to control the release of said drill string"	Needs no construction. This term and/or phrase should be given its ordinary and customary meaning because it is readily understood by a person of ordinary skill in the art at the time of the invention.
(claim 14)	To in any or design of the state of the stat
22. "regulate the release said drill string" (claim 14)	To increase or decrease the rate of lowering of the drill string.
23. "regulates the release said drill string in response to said selected signal or signals"	To increase or decrease the rate of lowering of the drill string in response to said selected signal or signals.
(claim 14)	
24. "measuring changes"	Measurement of changes over time which will also be compared to a set reference point.
"changes"	
(claim 1, 11 and 14)	
25. "Selecting"	Needs no construction. This term and/or phrase should be given its ordinary and

<u>Claim Terms</u>	NOV's Proposed Claim Construction
(claim 14)	customary meaning because it is readily understood by a person of ordinary skill in the art at the time of the invention.
	Alternative construction: Automatic selecting, <i>i.e.</i> , choosing.