Datla Uma L. Form 4 February 16, 2018

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

OMB 3235-0287 Number:

burden hours per

Check this box if no longer subject to Section 16.

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

January 31, Expires: 2005 Estimated average

OMB APPROVAL

Form 4 or Form 5 obligations may continue. See Instruction

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

response... 0.5

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person ** Datla Uma L.			2. Issuer Name and Ticker or Trading Symbol	5. Relationship of Reporting Person(s) to Issuer			
		05111	RSP Permian, Inc. [RSPP]	(Check all applicable)			
(Last)	(First)	(Middle)	3. Date of Earliest Transaction				
3141 HOOD STREET, SUITE 500			(Month/Day/Year) 02/14/2018	Director 10% OwnerX Officer (give title Other (specification) below) Chief Accounting Officer			
(Street) DALLAS, TX 75219			4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Chec			
			Filed(Month/Day/Year)	Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person			
				reison			
(City)	(State)	(Zip)	Table I - Non-Derivative Securities A	canired, Disposed of, or Beneficially Owner			

(City)	(State) (Z	Zip) Table	e I - Non-D	erivative Securities Ac	equired, Disposed	of, or Beneficial	lly Owned
1.Title of	2. Transaction Date	2A. Deemed	3.	4. Securities	5. Amount of	6. Ownership	7. Nature of
Security	(Month/Day/Year)	Execution Date, if	Transactio	onAcquired (A) or	Securities	Form: Direct	Indirect
(Instr. 3)		any	Code	Disposed of (D)	Beneficially	(D) or	Beneficial
		(Month/Day/Year)	(Instr. 8)	(Instr. 3, 4 and 5)	Owned	Indirect (I)	Ownership
					Following	(Instr. 4)	(Instr. 4)
				(4)	Reported		

Transaction(s) (Instr. 3 and 4)

(A) or Code V Amount (D) Price

Common $A^{(1)}$ 02/14/2018 9,059 A \$0 15,657 D Stock

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

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1. Title of	2.	3. Transaction Date		4.	5.	6. Date Exerc		7. Title a		8. Price of	9. Nu
Derivative Security (Instr. 3)	Conversion or Exercise Price of Derivative Security	(Month/Day/Year)	Execution Date, if any (Month/Day/Year)	Transaction Code (Instr. 8)	onNumber of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)			Amount Underlyi Securitie (Instr. 3	erlying	Security (Instr. 5)	Deriv Secur Bene Own Follo Repo Trans (Instr
				Code V	(A) (D)	Date Exercisable	Expiration Date	or Title N of	umber		

Reporting Owners

Reporting Owner Name / Address

Relationships

Director 10% Owner Officer Other

Datla Uma L.

3141 HOOD STREET, SUITE 500 Chief Accounting Officer

DALLAS, TX 75219

Signatures

/s/James E. Mutrie, attorney-in-fact for Uma L.
Datla
02/16/2018

**Signature of Reporting Person Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 4(b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Restricted stock grant that will vest in three installments, with the first installment of 3,020 shares occurring on February 14, 2019, the second installment of 3,020 shares occurring on February 14, 2020 and the third installment of 3,019 shares occurring on February 14, 2021.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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