RSP Permian, Inc. Form 5 February 05, 2016

securities beneficially owned directly or indirectly.

OMB APPROVAL FORM 5 **OMB** UNITED STATES SECURITIES AND EXCHANGE COMMISSION 3235-0362 Number: Washington, D.C. 20549 Check this box if January 31, Expires: no longer subject 2005 to Section 16. Estimated average ANNUAL STATEMENT OF CHANGES IN BENEFICIAL Form 4 or Form burden hours per 5 obligations OWNERSHIP OF SECURITIES response... 1.0 may continue. See Instruction Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, 1(b). Form 3 Holdings Section 17(a) of the Public Utility Holding Company Act of 1935 or Section Reported 30(h) of the Investment Company Act of 1940 Form 4 Transactions Reported 1. Name and Address of Reporting Person * 2. Issuer Name and Ticker or Trading 5. Relationship of Reporting Person(s) to Issuer **GRAY STEVEN D** Symbol RSP Permian, Inc. [RSPP] (Check all applicable) 3. Statement for Issuer's Fiscal Year Ended (Last) (First) (Middle) (Month/Day/Year) _X_ Director 10% Owner _X__ Officer (give title 12/31/2015 Other (specify below) below) 3141 HOOD STREET, SUITE 500 Chief Executive Officer (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Reporting Filed(Month/Day/Year) (check applicable line) DALLAS. TXÂ 75219 _X_ Form Filed by One Reporting Person _ Form Filed by More than One Reporting Person (City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 1.Title of 2. Transaction Date 2A. Deemed 4. Securities 5. Amount of 6. Ownership 7. Nature of Security (Month/Day/Year) Transaction Securities Form: Direct Indirect Execution Date, if Acquired (A) or Beneficially (Instr. 3) Code Disposed of (D) (D) or Beneficial (Month/Day/Year) (Instr. 8) (Instr. 3, 4 and 5) Owned at end Indirect (I) Ownership of Issuer's (Instr. 4) (Instr. 4) (A) Fiscal Year or (Instr. 3 and 4) Amount (D) Price Common Â Â Â Â Â Â Â 132,436 (1) D Stock Reminder: Report on a separate line for each class of Persons who respond to the collection of information **SEC 2270**

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

contained in this form are not required to respond unless

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(9-02)

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1. Title	of 2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exerc	cisable and	7. Title and	8. Price of
Derivat	ive Conversion	(Month/Day/Year)	Execution Date, if	Transaction	Number	Expiration D	ate	Amount of	Derivative
Security	y or Exercise		any	Code	of	(Month/Day/	Year)	Underlying	Security
(Instr. 3	Price of		(Month/Day/Year)	(Instr. 8)	Derivativ	e		Securities	(Instr. 5)
	Derivative				Securities			(Instr. 3 and 4)	
	Security				Acquired				
	•				(A) or				
					Disposed				
					of (D)				
					(Instr. 3,				
					4, and 5)				
					(A) (D)	Date	Evniration	Title Amount	
					(A) (D)		*		
						Exercisable	Date	or Normhair	
								Number	
								of	
								Shares	

of D

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Reporting Owners

Reporting Owner Name / Address	Relationships						
topo and a man a man of the control	Director	10% Owner	Officer	Other			
GRAY STEVEN D 3141 HOOD STREET, SUITE 500 DALLAS, TX 75219	ÂX	Â	Chief Executive Officer	Â			

Signatures

/s/ James E. Mutrie, attorney-in-fact for Steven D. Gray 02/05/2016

**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).
- (1) Amount reflects 2,759 shares and 5,500 shares withheld by the issuer on February 11, 2015 and March 1, 2015, respectively, each incident to the vesting of a restricted stock grant issued in accordance with Rule 16b-3.

Note: File three copies of this Form, one of which must be manually signed. If space provided 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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