District 1   1625 N. French Dr., Hobbs, NM 88240   Phone: (575) 393-6161 Fax: (575) 393-0720   District II   811 S. First St., Artesia, NM 88210   Phone: (575) 748-1283 Fax: (575) 748-9720   District III   1000 Rio Brazos Road, Aztec, NM 87410   Phone: (505) 334-6178 Fax: (505) 334-6170   District IV   1220 S. St. Francis Dr., Santa Fe, NM 87505   Phone: (505) 476-3460 Fax: (505) 476-3462				State of New Mexico RECEIVED as and Natural Resources Oil Conservation Division JAN 03 2014 1220 South St. Francis Dr. NMOCD ARTESIA Fe, NM 87505					Form C-101 Revised July 18, 2013	
APPLI	CATIO	ON FOR		O DRILL,		TER, DI	EEPEN,	PLUGBAC	K, OR A	ADD A ZONE
	PC		ANGUARD F	ARD PERMIAN LLC 1 NORTH NM HIGHWAY 248						350
		00/(1	EUNICE, I	EUNICE, NM 88231					<sup>3</sup> API Number	
									30-015	-26368
	erty Code 9456			<sup>3</sup> Property Name South Culebra Bluff 23					<sup>6-</sup> Well No. 12	
<sup>7</sup> . Surface Location NDRTH										
UL - Lot H	Section 23	Township 23S	Range 28E	Lot Idn	Feet from 2140			Feet From 400	E/W Line	
		1 200		* Proposi	ed Bottom		l			
UL - Lot	Section	Township	Range	Lot Idn	Feet from	I	l/S Line	Feet From	E/W Line	e County
	<u> </u>	• • •	I	. <sup>9.</sup> Pc	l pol Informa	l	1			
Lovin	Vg·	Reus	hy Gan	Genuan; BAST				•		40550
	7/	~	<u>ب</u> ، د لہ	/ / Addition	al Well Inf	ormation	1			, _
<sup>11</sup> Work Type			<sup>12</sup> Well Type OIL	<sup>13.</sup> Cable/Rotary <sup>14.</sup> Lease			Lease Type	<sup>15.</sup> Ground Level Elevation 2992.4		
			<sup>17.</sup> Proposed Depth 6280					<sup>20,</sup> Spud Date		
Depth to Ground water								Distance t	stance to nearest surface water	
We will b	e using a	closed-loop	system in lieu o	f lined pits						······································
<sup>21.</sup> Proposed Casing and Cement Program										
Туре	Hol	e Size	Casing Size	Casing We	eight/ft	Setting Depth		Sacks of C	Cement	Estimated TOC
	121/4 95/9 24			5	70	250	<b>`</b>			

12 1/4	8 5/8	24	579	350	
7 7/8	5 1/2	15.5	6310	1795	
			•		
 	Casin	g/Cement Program: A	dditional Comments	•	• • • • • • • • • • • • • • • • • • • •

## <sup>22</sup> Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer

<sup>23.</sup> I hereby certify that the information best of my knowledge and belief.		OIL CONSERVATION DIVISION		
19.15.14.9 (B) NMAQ , if applicab		Approved By: Charact		
Printed name: GAYE HEARD	era			
Printed name. UATE HEARD	·····	Title: "Geologist"		
Title: AGENT		Approved Date: 13-2014 Expiration Date: 1-3-2015		
E-mail Address: gheard@oilreportsi	nc.com			
Date: 12-31-3013	Phone: 575-393-2727	Conditions of Approval Attached		

## VANGUARD PERMIAN LLC

## SOUTH CULEBRA BLUFF #12

## Unit H Sec 23 T23S R28E API #30-015-26368

1. MIRU completion rig and test anchors.

2. Kill well with 2% KCL water, if necessary. Unseat pump and POOH w/ rods and pump.

3. ND WH and NU BOP. Release TAC and POOH w/ tubing.

4. PU, strap and TIH with 4-3/4" bit, 5-1/2" casing scraper and 2-7/8" tubing. Clean out hole to PBTD (6280') until clean returns, POOH

5. MI wireline w/ packoff. RIH CIBP, GR/CCL

6. Set CIBP @~6170'.

7. MU 3-1/8" casing guns set at 4 spf, 120° phasing (0.38" hole, 39.5" penetration).

8. Perforate as follows:

a. 5982' - 5993' (9', 36 shots)

b. 6001' – 6014' (13', 52 shots)

c. 6072' – 6086' (14', 56 shots)

d. 6144' – 6148' (4', 16 shots)

e. 6155' – 6164' (9', 36 shots)

9. MU 3-1/8" casing guns set at 2 spf, 120° phasing (0.38" hole, 39.5" penetration)

10. Perforate as follows:

a. 5870' – 5882' (12', 24 shots)

b. 5902' - 5912' (10', 20 shots)

c. 5922' - 5926' (4', 8 shots)

11. RD wireline.

12. PU a 5-1/2" Arrowset I packer and RIH to ~5860'. Load tubing/hole with 2 % KCl and set packer. Test csg/packer down backside to 3500 psi.

13. MIRU pump truck and test lines to 3500 psi.

14. Pump 4000 gals 15% NEFE acid with rock salt.

a. Pump 500 gal then pump 4000 lbs rock salt over next 3000 gals.

b. Pump last 500 gals and flush to 6164'.

c. Record ISIP, 5 min, 10 min and 30 min.

15. RIH w/ 5-1/2" TAC, SN and 2-7/8" tubing. Set SN at ~5850', discuss with Mike Jones.

16. RIH w/ rods and pump.

17. Turn well on to production.



