### District I 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

<u>District IV</u>
1220 S, St. Francis Dr., Santa Fe, NM 87505

## **State of New Mexico**

Form C-101 Revised July 18, 2013

## **Energy Minerals and Natural Resources**

HOBBS OCD

**Oil Conservation Division** 

☐AMENDED REPORT

15 2014

1220 South St. Francis Dr.

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462			MAY 1 9 2011		Santa Fe, NM 87505				
ADDET				and the second				•	AD A ZONIE
APPLICATION FOR PERMIPE OF DRILL, RE-EI Operator Name and Address VANGUARD PERMIAN LLC 5847 SAN FELIPE SUITE 3000						IR, DEEPEN	, PLUGBACI	258350	DD A ZONE
		HO	USTON, TEX	XAS 77057		30-025-37400			
4. Prope	erty Code 1544	1	<sup>3</sup> Property COLE S			Name ATE		° Well No.	
7. Surface L									
UL - Lot G	Section 16	Township 22S	Range 37E	Lot Idn	Feet from 1650	N/S Line NORTH	Feet From 1800	E/W Line EAST	County LEA
	· · · · · · · · · · · · · · · · · · ·			8 Proposed	d Bottom Hole Location				
UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
				9. <b>Po</b> c	ol Informati	on			
Pool Name PENROSE SKELLY GRAYBURG						SAN ANDRES			Pool Code 50350
					l Well Infor				
P OIL ;							14. Lease Type STATE	13. G	round Level Elevation 3411 GL
16. Multiple 17. Proposed Depth 18. Forma 3710 GRAYBURG SA							19. Contractor		<sup>20.</sup> Spud Date
Depth to Grou	ind water		Dista	ance from nearest fr	esh water well		Distance t	o nearest surfac	ce water
We will b	e using a	closed-loop s	ystem in lieu o	f lined pits				1.412	
<u> </u>		•	21.	Proposed Cas	ing and Cen	nent Program			
Туре	Type Hole Size		Casing Size Casing Wei		· ·		Sacks of Cement		Estimated TOC
							<u> </u>		
	l		Casir	1 1g/Cement Pro	gram: Addi	itional Commen	ts	L	
				-		٠			
			22.	Proposed Blov	wout Prever	ition Program			
Туре			Working Pressure			Test Pressure		Manufacturer	
23									
<sup>23.</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief.						OIL CONSERVATION DIVISION			
I further certify that I have complied with 19.15.14.9 (A) NMAC and/or 19.15.14.9 (B) NMAC, if applicable.  Signature:						Approved By:			
Printed name: GAYE HEARD						Title: Petroleum Engineer			
Title:	AGE					Approved Date: 05/16/14 Expiration Date: 106/16/16			
		@oilreportsin	c.com			<u> </u>	110/11	-	V 31/00×0
Date: 5-14-2014 Phone: 575-393-2727						Conditions of Approval Attached			

### **VANGUARD PERMIAN LLC**

## **COLE STATE #19**

### API #30-025-37400 Sec 16 T22S R37E

MIRU completion rig and test anchors. 1. Unseat pump and POOH w/ rods and pump. 2. ND WH and NU BOP. Kill well with 2% KCL water, if necessary. Release TAC and 3. POOH w/ tubing. PU, strap and TIH with 4-3/4" bit, 5-1/2" casing scrapper & 2-7/8" tubing. 4. Clean out hole to ~3970' until clean returns, POOH and stand back 2-7/8" tubing. MI wireline w/ packoff. RIH w/ CBP and GR/CCL & correlate to the Baker Hughes Gamma/Neutron Log dated 1-Nov-2005. Set CBP @ ~3710'. Test CBP and casing to 1000 psi. 6. MU 3-1/8" slick casing guns set at 3 spf, 120° phasing (0.40" hole, 21" 7. penetration). Perforate as follows: 8. a. 3485' - 3488' (3', 3 spf, 9 shots) 3530' - 3534' (4', 3 spf, 12 shots) b. 3634' - 3636' (2', 3 spf, 6 shots) for a total of 27 shots c. 9. RD wireline. PU a 5-1/2" Arrowset packer and 2-7/8" tubing. Test tubing going in the hole to 10. 3500 psi. MIRU pump truck (with 500 gals acid) and test lines to 3500 psi. 11. Spot 50 gals of acid across perforations. Load tubing with 2 % KCl and set packer a. at 3450'. Pump 450 gals 15% NEFE acid and flush to 3636'. b. Record ISIP, 5 min, 10 min and 30 min. c. 12. RU swabber and swab well in to test acid job. Recover load and report fluid/gas entry, if possible. If well is on vacuum, continue to Step 13. Release packer and POOH laying down packer and tubing. 13. 14. RDMO completion rig. Call out 3-500 bbl tanks & fill with 2% KCl water. Install frac valve in 15. preparation for frac job down 5-1/2" casing. RU frac Co. and test lines & pump as per frac schedule. 16. 17. Monitor ISIP, 5 min, 10 min, 15 min. Flowback until well dies. Rig down frac valve and release frac tanks. 18. MIRU completion rig. 19. Kill well with water if necessary. 20. PU a 4-3/4" bit and 2-7/8" tubing and RIH to confirm perfs are open and cleanout 21. to CBP @ 3710', POOH. RU and bail sand if necessary. 22. 23. RIH w/ 5-1/2" TAC, SN and 2-7/8" tubing. RIH w/ rods and pump. 24. 25. RD & MO.

Turn well on to production and test.

26.



# Cole State #19

# P. Skelly/Graygurg/San Andres - 30-025-37400

# Lea County, New Mexico

PROPOSED COMPLETION - 5/2014

