<u>District 1</u> 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 <u>District 11</u>			State of New Mexico Energy Minerals and Natural Resources							Form C-101 Revised July 18, 2013		
			- BRS O	HOBBS OCD 0 MAY 1 5 2014 1		Oil Conservation Division				AMENDED REPORT		
1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV			HOPPo	2014		uth St. Fr		•				
1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462			MAY 10	MAY 10 Sant		a Fe, NM	87505		· · · ·	:		
APPLI	CATIO	N FOR F	ERMRE	EVED DRI	LL, RE-EN	TER, D			CK, OR A	DD A ZONE		
		VAN	Operator Name	Operator Name and Address JUARD PERMIAN LLC SAN FELIPE SUITE 3000 STON, TEXAS 77057					² OGRID Number 258350			
		, HO	USTON, TEX						³ API Number 30-025-37400			
^{4.} Prope	rty Code 544			³ Property Name COLE STATE				• Well No. 19				
		·····			7. Surface Lo	cation			. .			
UL - Lot G	Section 16	Township 22S			In Feet fro 165	0 N	N/S Line ORTH	Feet From 1800	E/W Line EAST	· · ·		
Proposed Bottom Hole Location												
UL - Lot	Section	Township	Range	Lot Id	In Feet fro	om	N/S Line	Feet From	E/W Line	County		
		[L	^{9.} Pool Inform	mation						
Pool Name PENROSE SKELLY GRAYBURG										Pool Code 50350		
				Add	litional Well I	nformatio	n					
^{11.} Wor	••	· .	¹² Well Type OIL .					^{14.} Lease Type STATE				
¹⁶ Multiple ¹⁷ Proposed Depth					¹⁸ Forma GRAYBURG SA	ation ^{19.} Contractor ^{20.} Spud Date						
Depth to Ground water Distance from nearest fresh wat						well Distance to nearest surface water						
We will b	e using a c	closed-loop s	ystem in lieu o	f lined pit	ts							
<u>г</u>		1.231 .	21.	T	d Casing and					· · · · · · · · · · · · · · · · · · ·		
Туре	Hole	e Šize	Casing Size	Casi	ng Weight/ft	Setting Depth		Sacks of Cement		Estimated TOC		
									· · · · · · · · · · · · · · · · · · ·			
			Casir	ig/Ceme	nt Program: A	Additional	Comment	ts				
			22.	Propose	ed Blowout Pr	evention F	rogram					
Type Working Pressure					ressure	Test Pressure				Manufacturer		
			given above is t	rue and co	mplete to the		OIL	CONSERVA	TION DIV	/ISION		
best of my knowledge and belief. I further certify that I have complied with 19.15.14.9 (A) NMAC and/or 19.15.14.9 (B)/NMAC, if applicable.						Approved By:						
Signature: Have Heard						Mult						
Printed name: GAYE HEARD						Title: Petroleum Engineer						
Title:							Date: 09	116/14	Expiration Dat	10: 05/16/16		
E-mail Addre	ss: gheard	@oilreportsinc	.com							-		

Date:	5-14-2014

Phone: 575-393-2727

Conditions of Approval Attached

MAY 19 2014

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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 5. 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 а. at 3450'. Pump 450 gals 15% NEFE acid and flush to 3636'. b. Record ISIP, 5 min, 10 min and 30 min. с. 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.

