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

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

CONSERVATION

NOTICE STATES AND ARTICLES ARTI

AUPin Consideration Division

1220 South St. Francis Dr. RECEIVED RESanta Fe, NM 87505

Form C-101 Revised July 18, 2013

☐AMENDED REPORT

APPL	CATIC	ON FOR	PERMIT TO	O DRILL,	RE-ENTI	ER, DEEPEN,	PLUGBACI	K, OR A	DD A ZONE		
			1. Operator Name ar NGUARD PER			<sup>2</sup> OGRID Number 258350					
		5847	SAN FELIPE, OUSTON, TEX	<b>SUITE 3000</b>	)			<sup>3</sup> API Number 30-015-26709			
* Prop	erty Code 2391			5.	Property Name CANDIE 13	:			Nell No.		
	4371		<u> </u>		rface Locati						
UL - Lot	Section 13	Township 23S	Range 28E	Lot Idn	Feet from 660	N/S Line SOUTH	Feet From 560	E/W Line WEST	1		
	1			8 Propose	L	ole Location					
UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County ·		
		<u> </u>		· 9. Po	l ool Informati	ion			<u> · l</u>		
			EA	Pool AST LOVING	Name G DELAWAI	RE		403	70 Pool Code 80695		
		·		Addition	al Well Info	rmation					
II. Wo	rk Type		12. Well Type		13. Cable/Rotary	[4	Lease Type FEE				
16. M	Iultiple		OIL  777. Proposed Depth 6286	•	Pormation Delaware	- 15	Contractor 20. Spud Date				
Depth to Gro	und water			ce from nearest f	resh water well		· · Distance t	o nearest surf	ace water		
 ∑We will b	e using a c	closed-loop s	system in lieu of	lined pits			·				
			<sup>21.</sup> F	roposed Ca	sing and Cer	ment Program					
Туре	Hole	e Size	Casing Size	Casing We	ight/ft	Setting Depth Sacks		ement	Estimated TOC		
			8 5/8	24#		582	350 SX	CIRC			
			5 1/2	15.50#		6300	675 SX	1 <sup>ST</sup>	stage		
							820sx	ĎΛ	tool		
			Casing	Cement Pro	ogram: Addi	itional Comments					
		•									
** ***			22. P	roposed Blo	wout Prever	ntion Program					
	Туре		W	orking Pressure		. Test Press	ure	Manufacturer			
		ન ગાં				***************************************					
					r = _ u						
best of my kr	nowledge an	nd belief.	n given above is tru	1		OIL	CONSERVAT	ION DIV	ÍSION		
		have complied, if applica	d with 19.15.14.9 ble.	(A) NMAC L	And/or Ap	oproved By:	? Shasa	rd			
Printed name	GAYE	HEARD			Tit	Title: "Geologist"					
Title:	AGENT	,			Ap	proved Date: 8 -/	- 2014 Ex	piration Date	8-1-2016		
E-mail Addre		neard@oilrepo						_			
Date:	7-30-	14	Phone: 575-	393-2727	Co	Conditions of Approval Attached					

# 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

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

Property Code

312391 OGRID No.

258350

<sup>1</sup> API Number

30-015-26709

## State of New Mexico

## Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

 AMENDED	DEDODT
AMENDED	KELOKI

<sup>6</sup> Well Number

<sup>9</sup> Elevation

2967.7 GL

<sup>3</sup> Pool Name

East Loving Delaware

WELL LOCATION AND A	ACREAGE DEDICATION PLAT
---------------------	-------------------------

Property Name

CANDIE 13

8 Operator Name

VANGUARD PERMIAN LLC

<sup>2</sup> Pool Code

312391

					<sup>10</sup> Surface l	Location					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
M	13	23S	28E		660	SOUTH	560	WEST	EDDY		
			" Bo	ttom Hol	e Location If	Different Fron	n Surface				
UL or lot no.	Section	Township	Range	Let Idn	Feet from the	North/South line	Feet from the	East/West line	County		
12 Dedicated Acres	5 Joint o	r Infill	Consolidation	Code 15 Or	der No.						
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.											
16		•					I hereby certify to the best of n owns a working the proposed b location pursus interest, or to a order heretofo Signature  GAYE F Printed Name gheard@oitre E-mail Addre  18 SURV I hereby ce plat was pu made by m same is tru	TEYOR CERT  Sertify that the well local  Sertify that the supervious and correct to the believed.	d herein is true and complete fout this organization either interest in the land including ight to drill this well at this or a compulsory pooling or a compulsory pooling 7-30-14  Date  Date  IFICATION tition shown on this of actual surveys sion, and that the east of my belief.		

#### VANGUARD PERMIAN LLC

#### **CANDIE 13 #1**

### M 13 T23S R28E 660/S & 560/W API#30-015-26709

#### Candie 13-1

## Procedure:

- 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. Lay out 2-7/8" tubing.
- 4. PU, strap and TIH with 4-3/4" bit, 5-1/2" casing scraper and 2-7/8" tubing. Drill out CIBP @ 5290', 5340', and 5490' and Clean out hole to PBTD (5738') until clean returns, POOH
- 5. PU packer and set @ 5495', get injection rate. \*\*Monitor Backside pressure.\*\* Then pull up and set packer @ 5295', and get injection rates. POOH.

## \*\*If the zones are in communication, do steps 6a-16a, else do steps 6b-17b.\*\*

- 6a. PU a 5-1/2" Cement Retainer and RIH to 5280' and set.
- 7a. Pump cement squeeze as per procedure. Release from retainer and reverse circulate until returns are clean. POOH.
- 8a. PU 4-3/4" bit to drill out cement retainer and cement in casing.
- 9a. RIH w/ packer, set @ 5295', test squeeze to 500 psi.
- 10a. Drill out CIBP @ 5738' and 6017'. Clean out to PBTD (6286') until clean returns. POOH.
- 11a. PU, strap and TIH with 4-3/4" bit, 5-1/2" casing scraper and 3-1'2" frac string tubing. Drill out cement plug and CIBP @ 5738 and 6017' and clean out hole to PBTD (6286').
- 12a. RIH w/ 5-1/2" TAC, SN and 2-7/8" tubing. Set SN at ~6180', discuss with Mike Jones.
- 13a. RIH w/ swab and test for fluid entry.
- 14a. RIH w/ rods and pump.
- 15a. RD & MO.
- 16a. Turn well on to production.
- 6b. PU a 5-1/2" Cement Retainer and RIH to 5500' and set.
- 7b. Pump Stage 1 cement squeeze as per procedure. Release from retainer and reverse circulate until returns are clean. POOH.
- 8b. PU a 5-1/2" Cement Retainer and RIH to 5285' and set.
- 9b. Pump Stage 2 cement squeeze as per procedure. Release from retainer and reverse circulate until returns are clean. POOH.
- 10b. PU 4-3/4" bit to drill out cement retainer and cement in casing.
- 11b. RIH w/ packer, set @ 5275', test squeeze to 500 psi.
- 12b. PU, strap and TIH with 4-3/4" bit, 5-1/2" casing scraper and drill out CIBP @ 5738' and 6017'. Then clean out hole to PBTD (6286')
- 13b. RIH w/5-1/2" TAC, SN and 2-7/8" tubing. Set SN at ~6180', discuss with Mike Jones.
- 14b. RIH w/ swab and test for fluid entry.
- 15b. RIH w/ rods and pump.
- 16b. RD & MQ.
- 17b. Turn well on to production.



# Candie 13-1 Loving East - 30-015-26709

Eddy County, New Mexico CURRENT COMPLETION - 7/2014

		2993' 2979'				<u>Depth</u> 582' 6300'	<u>Size</u> 8 5/8" 5 1/2"	<u>CAS</u> <u>Weight</u> 24# 15.5#	GING PROGI Grade R-1 J-55	RAM <u>I.D.</u> 8.097" 4.95"	Collapse 4,040	<u>Burst</u> 4,810
	DV tool @ 3513'					Surface: 350 sx Class C. TOC @ surf  Production: 1st Stage w/ 375 sx 50/50 Poz C + 300 sx Class C. 2nd Stage w/ 720 sx 35/65 Poz C + 100 sx Class C TOC @ surf						
	7			·		Pardue Per 4767' - 477	· ·	•				
		·			2000-00-01 2000-00-00-01 2000-00-00-01 2000-00-00-00-00-00-00-00-00-00-00-00-00	4786' - 480 4811' - 483	4'	104 holes				
								** :				
	CIBP	@ 5290'				Brushy Can	iyon					
	CIBP	@ 5347'				5306' - 533			Reperfed 5	306' - 5326	' - 80 holes	
		Ü				5350' - 5394	4' .	156 holes				
	CIBP	@ 5490'				·				History -	Highlights	
						Brushy Can 5516' - 5540		Onlikalan	4/91 - Well	Spudded		
						5554' - 5569	9'	82 holes	4/91 - Frac'o sand. ISIP=		160' w/ 35000 eened out)	)# 16/30
	CIBP	@ 5738'				Deutster O	on !! A A !!		6/92 - Frac'o		160' w/ 1825( =-2	0# 20/40 +
						Brushy Cay 5804' - 5822 5851' - 587	2'	40 holes	6/92 - Frac'	d 5804' - 58	871' w/ 33000 nd. ISIP=430	
	CIBP	@ 6017'							li		5569' w/ 7606 CR4000. ISIP	
		-		=		Brushy Can 6147' - 6160			II		5394' w/ 1133 RC sand. \S\F	1
}			4			PBTD = 628	38'		12/02 - Perf and improve		5326' w/ 80 h n.	oles to try
	Note: This schematic is not to scale. For display purposes only.  5/03 - Frac'd 4767' - 4830' w/ 90760# 16/3 sand + 34100# CR4000. ISIP=975#											3



# Candie 13-1 Loving East - 30-015-26709

Eddy County, New Mexico
CURRENT COMPLETION - 7/2014

				<u> </u>	TILLIVI CON	II LL HON	112014				
KB.	2993'				CASING PROGRAM						
KB: GL:	2993 2979'				<u>Depth</u>	Size	Weight	Grade	<u>I.D.</u>	Collapse	Burst
	_0,0				. 582'	8 5/8"	24#	R-1	8.097"	<u> 11 ap 30</u>	<u> </u>
					6300'	5 1/2"	15.5#	J-55	4.95"	4,040	4,810
					0	250 01-	: 0 TOO	<u>Cement</u>			
					Surface:		ass C. T <sub>i</sub> OC (		200 av Cl	0 0-4 04	
					Production			100 sx Class		ass C. 2nd St	age w/
						1 20 0x 00	001020	TOO OX OIGOO	0,000	, our	
					4		•				
DV to	ol @ 3513'	pares.					:				
					Pardue Pe		:				•
					4767' - 477 4786' - 480		104 holes				
			- 一		4811' - 483		104 110163				
					1011 100	,,	. *				
											•
						r					
							;*				
							)·				
							•				
					•						
					Brushy Ca	nvon	•				
	•				5306' - 533		•	Reperfed 53	306' - 5326	' - 80 holes	
				•	0,00	· <del>· ·</del>	,	. Koponou oc	000	00,110100	
					5350' - 539	4'	156 holes				
			Squeezed		•		<b>3.</b>				
			5306' - 5569'		re many reco				History -	Highlights	
			Proposed 7/14		Drughy Co	nuon	1,	4/04 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Spuddod		
	•			. '.	Brushy Ca 5516' - 554	ini.		4/91 - Well S	spuaaea		
						9'. , >	82 holes	4/91 - Frac'o	i 6147' - 6 <sup>.</sup>	160' w/ 35000	# 16/30
					: .			sand. ISIP=			
	•			٠.			:			160' w/ 18250	)# 20/40 +
					Brushy Cay 5804' - 582		n i	10000# 20/4	ORC. ISI	P=?	
	•				5851' - 587		40 holes	6/92 - Frac'o	1 5804' - 58	371' w/ 33000	# 20/40
						, , ,	: ,			nd. ISIP=430	
							•				
				ι,	• •	* - , -		1		5569' w/ 7606	
					•	٠.		sand + 2820	16/30 (	CR4000. ISIP	=896#
					Brushy Car	ıvon "C"	'	11/02 - Erec	'd 5306' <i>-</i>	5394' w/ 1133	20#
					6147' - 616		ş .	If and the second secon		RC sand. ISIF	
							-			.5 53.13.10//	55011
								12/02 - Perfe	ed 5306' -	5326' w/ 80 h	oles to try
					PBTD = 62	88'		and improve	production	n.	·
	,, . <del>-</del>										
	Note: T	nis schema	atic is not to scale. For displa	y pui	rposes only.					330' w/ 90760	
				<u> </u>				<u> sand + 3410</u>	U# UK400	0. ISIP=975#	