Submit 1 Copy To Appropriate District	State of New Mexic	co	Form C-103	
District I – (575) 393-6161	D		Revised July 18, 2013	
1625 N. French Dr., Hobbs, NM 88240		WELL API N		
District II - (575) 748-1283 MAR 0 5 2018 IL CONSERVATION DIVISION		IVISION 30-015-42367		
District III _ (505) 334_6178 1220 Courth St. Even et a. Dr.		a D.,		
1000 Rio Brazos Rd., Aztec, NM 874 10 ARTESIA O.C.D. Santa Fe, NM 87505)5 6 State Oil &	t Gas Lease No.	
1220 S. St. Francis Dr., Santa Fe, NM			c das Lease Ivo.	
87505				
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A			ne or Unit Agreement Name	
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH			SIAIE	
PROPOSALS.)		<u></u>	8. Well Number 20	
1. Type of Well: Oil Well Gas Well Other				
2. Name of Operator VANGUARD OPERATING, LLC		1	9. OGRID Number 258350	
3. Address of Operator			10. Pool name or Wildcat	
5847 SAN FELIPE, STE. 3000, HOUSTON, TEXAS, 77057		F .	Artesia; GL-Yeso; Red Lake; San Andres	
4. Well Location				
Unit Letter E: 1,650 feet from the NORTH line and 420 feet from the WEST line				
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3623' GL				
The state of the s				
12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data				
12. Check Appropriate box to indicate Nature of Notice, Report of Other Data				
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:				
		☐ ALTERING CASING ☐		
	ANGE PLANS 🔲 C	SE PLANS □ COMMENCE DRILLING OPNS.□ P AND A □		
PULL OR ALTER CASING MUI	L OR ALTER CASING			
DOWNHOLE COMMINGLE				
CLOSED-LOOP SYSTEM				
OTHER: Recomplete Well to San Andre	s 🗵 C	THER:		
13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date				
of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of				
proposed completion or recompletion.				
Vanguard Operating, LLC would like to recomplete this Yeso oil well to the San Andres & DHC as follows: MIRUSU. TOH w/rods,				
pump, tbg. Set a 5-1/2" CBP @ 3,375' & pressure test csg to 3,500 psig. Bleed pressure and chart csg integrity test at 1,000 psig for 30				
minutes. (Existing Yeso perfs are @ 3,426'-3,510'). Perforate lower San Andres @ ~3,023'-3,261' w/ 34 holes. MIRU frac company. Stimulate with 1,000 gals 15% HCL & frac w/ ~30,000# 100 mesh, ~131,460# 40/70 Ottawa, and ~ 72,450# 40/70 Coolset sand in slick				
		160# 40/70 Ottawa, and ~ 72,450	J# 40//0 Coolset sand in slick	
water. Spot 500 gals 15% HCL across stage 2 perforations.				
Set a 5-1/2" CBP @ 3,005' & PT to 3,500 psig. Perf middle San Andres @ 2,769'-3,000' w/ 30 holes. Stimulate with 1,000 gals 15%				
HCL & frac w/~30,000# 100 mesh, ~140,074# 40/70 Ottawa, and ~ 68,250# 40/70 Coolset sand in slick water. Spot 500 gals 15% HCL				
across stage 3 perforations.				
· ·				
Set a 5-1/2" CBP @ 2,730' & PT to 3,500 psig. Perf upper San Andres @ 2,242'-2,704' w/ 34 holes. Stimulate with 1,000 gals 15% HCL				
& frac w/ \sim 30,000 $\frac{1}{7}$ 100 mesh, \sim 180,215# 40/70 Ottawa, and \sim 94,675# 40/70 Coolset sand in slick water.				
00 0 0 1 1 1 1 1 1 00 D1 0 0 7202 0 2 0052 00 4 0DD 0 2 2752 D.m. 2 7/02 1 55 mm dustion the Palent (0.2 2252 Dun numn				
CO after frac and drill out CBP's @ 2,730' & 3,005'. CO to CBP @ 3,375'. Run 2-7/8" J-55 production the & land @ 3,225'. Run pump and rods. Release workover rig. Complete as a single San Andres oil well. See the attached proposed wellbore diagram. Following a test				
of the San Andres and approval of the DHC application, the CBP @ 3,375' will be removed and the well will be DHC.				
of the San Andres and approval of the DH	——————————————————————————————————————	will be removed and the wenty		
Spud Date: 11/16/2014	Rig Release Date			
Space Date.	Tag residuo Bine			
I hereby certify the information above is true and complete to the best of my knowledge and belief.				
CICNATION // / Zi	TITLE C	Naustiana Enginear	DATE 03/01/2019	
SIGNATURE // /	TITLEC	perations Engineer	_DATE03/01/2019	
Type or print name Kyle Zimmerman	n E-mail address: <u>k</u>	zimmerman@vnrenergy.com	PHONE: 432-202-0145	
For State Use Only		Emilior manager in onorgy, com		
201 100000 000 001111				
APPROVED BY:	TITLE		DATE	
Conditions of Approval (if any):				

WELCH RL STATE #20 GR LEASE/WELL: 3623 SPUDDED COMPLETED 11/16/2014 12/9/2014 ORIGINAL YESO COMPLETION 1,650' FNL & 420' FWL E-28-T17S-R28E LAT LONG 32.8078346 -104.187973 EDDY COUNTY, NEW MEXICO ARTESIA, GLORIETA YESO FORMATION TOPS PER C-105
7 RIVERS 615
QUEEN 1181
GRAYBURG 1603
SAN ANDRES 1910
GLORIETA 3288
YESO 3398 30-015-42367 CURRENT YESO IP: 160 BOPD, 636 MCFPD, 1,273 BWPD 11" HOLE 8-5/8" 24# J-55 CMT W/ 300 SX, CIRC. 7-7/8" HOLE YESO PERFS: 3,426-3,510' (29 HOLES)
-ACIDIZE W/ 1,500 GALS 15%
-FRAC W/ 30,173# 100 MESH & 253,302# 40/70 ARIZONA SAND IN SW 5-1/2" 17# J-55 CMT W/ 675 SX. CIRC. 3,639

KDZ 03-05-2019

PBTD: 3,558' TD: 3,650'

LOCATION

CO/ST:

FIELD:

API NO.

WELCH RL STATE #20 GR 3623 1,650' FNL & 420' FWL E-28-T17S-R28E SPUDDED COMPLETED 11/16/2014 12/9/2014 ORIGINAL YESO COMPLETION EDDY COUNTY, NEW MEXICO 32,8078346 LONG -104.187973 ARTESIA, GLORIETA YESO FORMATION TOPS PER C-105
7 RIVERS 615
QUEEN 1181
GRAYBURG 1603
SAN ANDRES 1910
GLORIETA 3288 30-015-42367 615 1181 1603 1910 PROPOSED RECOMPLETION 3398 YESO IP: 160 BOPD, 636 MCFPD, 1,273 BWPD 11" HOLE 8-5/8" 24# J-55 CMT W/ 300 SX. CIRC. 7-7/8" HOLE PROPOSED UPPER SAN ANDRES PERFS 2.242-2,704° (34 HOLES)
-ACIDIZE W/~1,500 GALS 15% HCL
-FRAC W/~30,000# 100 MESH. ~180,215# 40/70 OTTAWA, & 94,675# 40/70 COOLSET SAND IN SW PROPOSED CBP 10, 2,730' PROPOSED MIDDLE SÃN ANDRES PERFS: 2,769-3,000 (30 HOLES) -ACIDIZE W/ ~1,500 GALS 15% HCL -FRAC W/ ~30,000# 100 MESH, ~140,074# 40/70 OTTAWA, & 68,250# 40/70 COOLSET SAND IN SW PROPOSED CBP 10, 3,005 PROPOSED LOWER SAN ANDRES PERFS: 3,023-3,261' (34 HOLES -ACIDIZE W/ -1,500 GALS 15% HCL -FRAC W/ -30,000# 100 MESH, -131,460# 40/70 OTTAWA, & 72,450# 40/70 COOLSET SAND IN SW PROPOSED CBP 16, 3,375' YESO PERFS: 3,426-3.510' (29 HOLES) -ACIDIZE W/ 1,500 GALS 15% -FRAC W/ 30.173# 100 MESH & 253,302# 40/70 ARIZONA SAND IN SW 3,639 5-1/2" 17# J-55 CMT W/ 675 SX. CIRC. KDZ 03-05-2019 PBTD: 3,558* TD: 3,650

LEASE/WELL:

LOCATION

CO/ST:

FIELD:

API NO.