

Submit 1 Copy To Appropriate District Office

District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-015-41065
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Staley State
8. Well Number 24
9. OGRID Number 258350
10. Pool name or Wildcat Red Lake; Glorieta-Yeso NE (96836) Red Lake; Queen-Grayburg-San Andres (51300)

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	
2. Name of Operator VANGUARD OPERATING, LLC	
3. Address of Operator 5847 SAN FELIPE, STE. 3000, HOUSTON, TEXAS, 77057	
4. Well Location Unit Letter <u>N</u> : <u>990</u> feet from the <u>SOUTH</u> line and <u>2,335</u> feet from the <u>WEST</u> line Section <u>30</u> Township <u>17S</u> Range <u>28E</u> NMPM County <u>EDDY</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3,586' GL	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input checked="" type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: DHC for pre-approved pools <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

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.

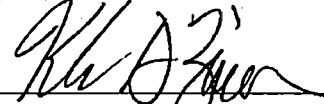
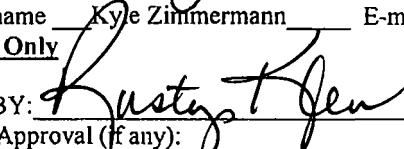
Vanguard Operating, LLC plans to downhole commingle (DHC) this San Andres oil well as follows:

1. MIRUSU.
2. RIH w/ 4-3/4" bit on 2-7/8" tbg and DO CBP @ 3,170'. CO to original PBSD (4,854').
3. Run production tbg and land @ ~4,775' and run pump and rods.
4. Produce well as a DHC well.

This work was previously submitted under the prior operator (LRE Operating) on an approved sundry dated 06/19/2015 and the well has an approved DHC order in place—DHC ART-4609-AA, and these pools are pre-approved State pools. The San Andres perforations are 1,742-2,996' and the Yeso perms are 3,300-4,460'. The pool allocations will be determined using a former test of the Yeso, the current test of the San Andres and a test of the new commingled production, and will be submitted on a subsequent sundry. Downhole commingling increases total remaining reserves through production efficiency and the ownership in these two pools is identical.

Spud Date: 06/16/2013	Rig Release Date:	NM OIL CONSERVATION ARTESIA DISTRICT DEC 06 2018
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I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE 	TITLE Operations Engineer	DATE 12/06/2018
Type or print name Kyle Zimmermann	E-mail address: kzimmerman@vnrenergy.com	PHONE: 432-202-0145
For State Use Only		
APPROVED BY: 	TITLE Business Ops Spec	DATE 12-11-2018
Conditions of Approval (if any):		

RECEIVED

Form C-102

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
511 S. First St., Artesia, NM 87210
Phone: (575) 745-1253 Fax: (575) 745-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6175 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
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr. DISTRICT II-ARTESIA O.C.D.
Santa Fe, NM 87505

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-41065	² Pool Code 96816	³ Pool Name Redlake; Gloria - YFSO NE.
⁴ Property Code 309874	⁵ Property Name STALEY STATE	
⁶ OGRID No. 281994	⁷ Operator Name LRE OPERATING, LLC	
		⁸ Well Number 24
		⁹ Elevation 3623.7

¹⁰ Surface Location

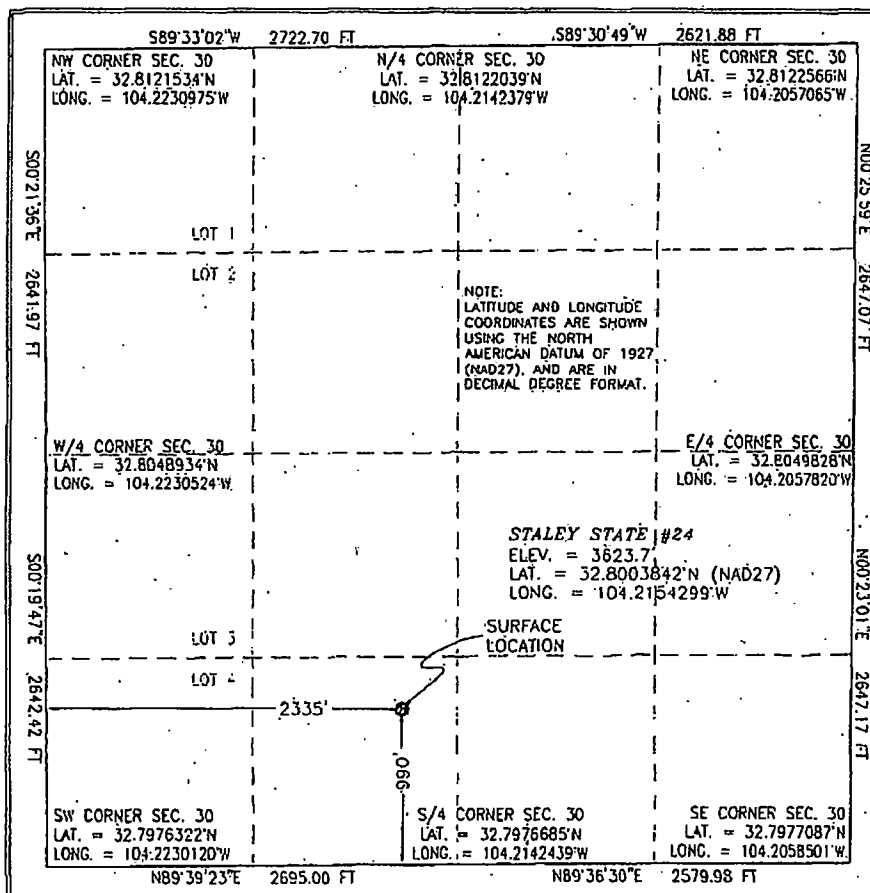
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	30	17 S	28 E		990	SOUTH	2335	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Eric McCluskey 2/5/13
Signature Date

Eric McCluskey
Printed Name

Emcclusky@lme-rock-resources.com
E-mail Address

¹⁷ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

DECEMBER 28, 2012
Date of Survey

James P. Pennington
Signature and Seal of Professional Surveyor

Certificate No. 15111
SURVEY NO. 1431

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department**OIL CONSERVATION DIVISION**

1220 South St. Francis Dr.

Santa Fe, NM 87505

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-102

Revised October 12, 2005

MAY 29 2015 Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

RECEIVED☒ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

¹ API Number 30-015-41065	² Pool Code 51300	³ Pool Name Red Lake, Queen-Grayburg-San Andres
⁴ Property Code 309874	⁵ Property Name STALEY STATE	⁶ Well Number 24
⁷ OGRID No. 281994	⁸ Operator Name LRE OPERATING, LLC.	⁹ Elevation 3624' GL

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	30	17-S	28-E		990	SOUTH	2335	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

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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.

¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature Mike Pippin Date 5/21/15

Mike Pippin
Printed Name

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

12/28/12

Date of Survey

Signature and Seal of Professional Surveyor:

Filmon F. Jaramillo

12797

Certificate Number

	30		
2335'			
		990'	

LEASE/WELL: STALEY STATE #24

LOCATION 990' FSL & 2,335' FWL
N-30-17S-28E

CO/ST: EDDY COUNTY, NEW MEXICO

FIELD: RED LAKE; GLORIETA-YESO NE
RED LAKE; QUEEN-GRAYBURG-SAN ANDRES

API NO. 30-015-41065

GR 3586

SUDDDED 6/16/2013
COMPLETED 7/1/2013 ORIGINAL YESO COMPLETION
6/29/2015 SAN ANDRES RECOMPLETION

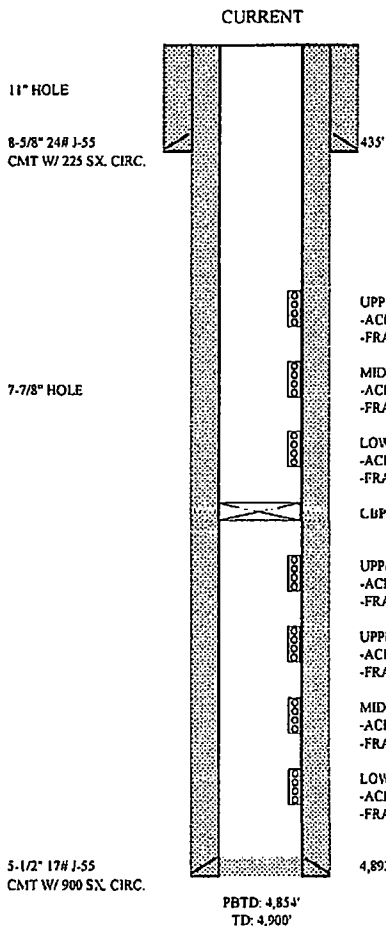
LAT 32.8004990
LONG -104.2160492

FORMATION TOPS PER C-105

SEVEN RIVERS 506
QUEEN 1051
GRAYBURG 1478
SAN ANDRES 1780
GLORIETA 3170
YESO 3266
TUBB 4679

INCLINATION SURVEY DATA

MD (ft)	Inclination (deg)
194	0.7
411	0.8
690	0.6
943	1.1
1199	0.9
1684	0.5
2161	0.4
2646	0.7
3159	0.3
3668	0.1
4153	0.4
4566	0.6
4840	0.3



CAN BE DHC AS PER ART-4609-AA

YESO IP: 110 BOPD, 111 MCFPD, 512 BWPD
SAN ANDRES IP: NO DATA FILED

UPPER SAN ANDRES PERFS: 1,742-1,968' (26 HOLES)
-ACIDIZE W/ 1,572 GALS 15%
-FRAC W/ 30,000# 100 MESH & 119,361# 40/70 ARIZONA SAND IN SW

MIDDLE SAN ANDRES PERFS: 2,170-2,584' (37 HOLES)
-ACIDIZE W/ 1,572 GALS 15%
-FRAC W/ 25,919# 100 MESH & 364,861# 40/70 ARIZONA SAND IN SW

LOWER SAN ANDRES PERFS: 2,650-2,996' (30 HOLES)
-ACIDIZE W/ 2,282 GALS 15%
-FRAC W/ 29,616# 100 MESH & 302,550# 40/70 ARIZONA SAND IN SW

C.B.P. @ 3,170'

UPPER YESO PERFS: 3,300-3,460' (33 HOLES)
-ACIDIZE W/ 2,000 GALS 15%
-FRAC W/ 51,119# 16/30 & 33,487# 16/30 RCS IN 25# XL GEL

UPPER YESO PERFS: 3,490-3,644' (16 HOLES)
-ACIDIZE W/ 2,000 GALS 15%
-FRAC W/ 48,340# 16/30 & 20,146# 16/30 RCS IN 20# XL GEL

MIDDLE YESO PERFS: 3,790-4,120' (26 HOLES)
-ACIDIZE W/ 3,000 GALS 15%
-FRAC W/ 72,500# 16/30 & 20,949# 16/30 RCS IN 20# XL GEL

LOWER YESO PERFS: 4,194-4,460' (22 HOLES)
-ACIDIZE W/ 3,000 GALS 15%
-FRAC W/ 59,241# 16/30 & 17,789# 16/30 RCS IN 20# XL GEL

PBTD: 4,854'
TD: 4,900'

KDZ 12-06-2018

LEASE/WELL: STALEY STATE #24

LOCATION 990' FSL & 2,335' FWL
N-30-175-28E

CO/ST: EDDY COUNTY, NEW MEXICO

FIELD: RED LAKE; GLORIETA-YESO NE
RED LAKE; QUEEN-GRAYBURG-SAN ANDRES

API NO. 30-015-41065

GR 3586

SUDDDED 6/16/2013
COMPLETED 7/1/2013 ORIGINAL YESO COMPLETION
6/29/2015 SAN ANDRES RECOMPLETION

LAT 32.8004990
LONG -104.2160492

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