

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

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.)		WELL API NO. 30-015-36976
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator VANGUARD OPERATING, LLC		6. State Oil & Gas Lease No.
3. Address of Operator 5847 SAN FELIPE, STE. 3000, HOUSTON, TEXAS, 77057		7. Lease Name or Unit Agreement Name Staley State
4. Well Location Unit Letter <u>L</u> : <u>1,650</u> feet from the <u>SOUTH</u> line and <u>330</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>		8. Well Number <u>11</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3,586' GL		9. OGRID Number 258350
		10. Pool name or Wildcat Red Lake; Glorieta-Yeso NE (96836) Red Lake; Queen-Grayburg-San Andres (51300)

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

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

- MIRUSU.
- RIH w/ 4-3/4" bit on 2-7/8" tbg and DO CBP @ 3,000'. CO to original PBSD (4,711').
- Run production tbg and land @ ~4,600' and run pump and rods.
- Produce well as a DHC well.

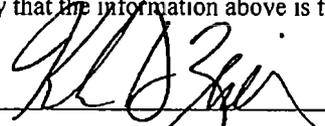
This work was previously submitted under the prior operator (LRE Operating) on an approved sundry dated 03/23/2015 and the well has an approved DHC order in place—DHC-ART-4609-T, and these pools are pre-approved State pools. The San Andres perforations are 1,686-3,466' and the Yeso perms are 3,561-4,567'. 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: 08/26/2009 Rig Release Date:  

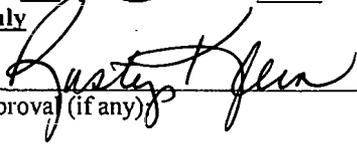
NM OIL CONSERVATION  
 ARTESIA DISTRICT  
 DEC 06 2018

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

RECEIVED

SIGNATURE  TITLE Operations Engineer DATE 12/06/2018

Type or print name Kyle Zimmermann E-mail address: kzimmerman@vnrenergy.com PHONE: 432-202-0145

APPROVED BY:  TITLE Business Operations DATE 12-11-18

Conditions of Approval (if any)

RECEIVED

DEC 06 2018

DISTRICT I  
1626 N. FRENCH DR., ROSAS, NM 88240

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised October 12, 2005  
Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

DISTRICT II  
1901 W. GRAND AVENUE, ARTESIA, NM 88210

OIL CONSERVATION DIVISION  
1220 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505

DISTRICT III  
1000 Rio Brasos Rd., Artec, NM 87410

DISTRICT IV  
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

API Number 30-019-36976	Pool Code 91836	Pool Name Red;Glorieta-Yeso Northeast
Property Code 305451	Property Name STALEY STATE	Well Number 11
OGRID No. 255333	Operator Name LIME ROCK RESOURCES A, L.P.	Elevation 3586'

Surface Location

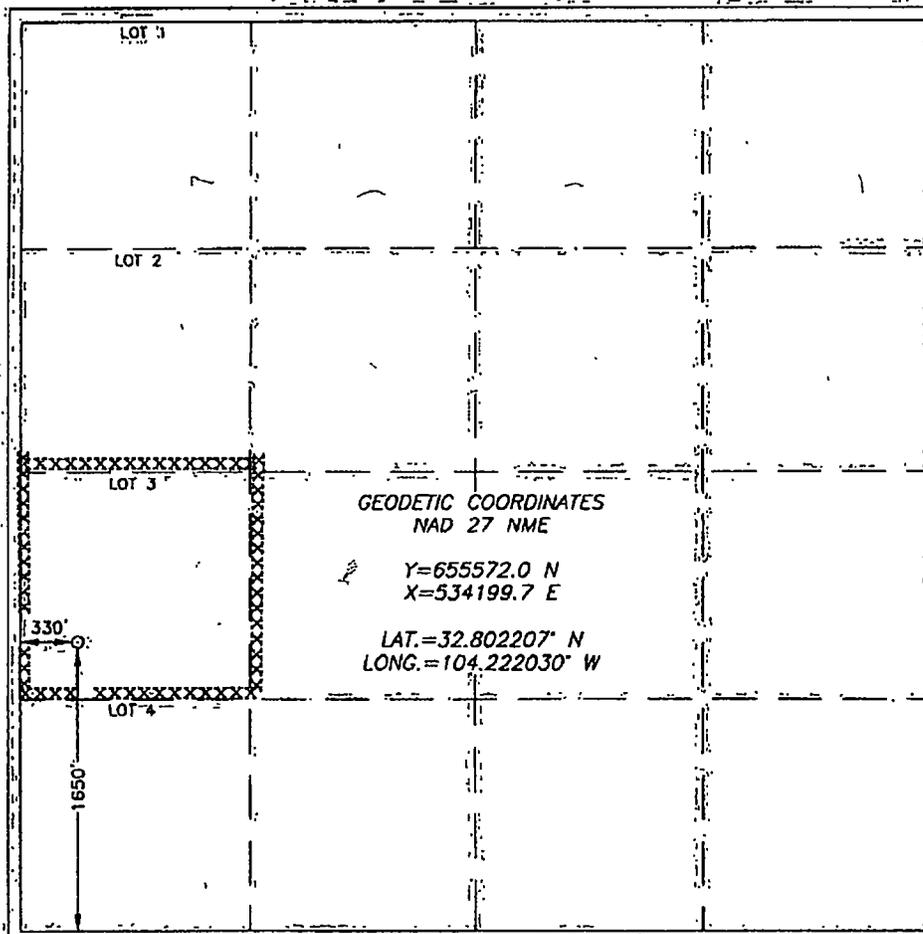
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	30	17-S	28-E		1650 /	SOUTH	330	WEST	EDDY

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

Dedicated Acres 40	Joint or Infill <input checked="" type="checkbox"/>	Consolidation Code	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



**OPERATOR CERTIFICATION**

I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

*George R. Smith* 12/7/09  
Signature Date  
George R. Smith, agent  
Printed Name

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**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.

NOVEMBER 19 2008  
Date Surveyed  
Signature & Seal of Professional Surveyor  
72641  
*Ronald J. Edson* 12/03/08  
2008-11-19 3:55  
Certificate No. GARY EDSON 12841  
RONALD J. EDSON 3259

NM OIL CONSERVATION  
ARTESIA DISTRICT

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102

District I  
1625 N. French Dr., Hobbs, NM 88240

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1301 W. Grand Avenue, Artesia, NM 88210

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RECEIVED

Revised October 12, 2005  
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Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-015-36976		<sup>2</sup> Pool Code 51300		<sup>3</sup> Pool Name Red Lake, Queen-Grayburg-San Andres	
<sup>4</sup> Property Code 309874		<sup>5</sup> Property Name STALEY STATE			<sup>6</sup> Well Number 11
<sup>7</sup> OGRID No. 281994		<sup>8</sup> Operator Name LRE OPERATING, LLC.			<sup>9</sup> Elevation 3586' GL

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	30	17-S	28-E	3	1650	South	330	West	EDDY

<sup>11</sup> 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
<sup>12</sup> Dedicated Acres 40		<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code		<sup>15</sup> Order 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.

	<p><sup>17</sup> OPERATOR CERTIFICATION</p> <p>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.</p> <p>Signature: <i>Mike Pippin</i> Date: 1/9/15</p> <p>Mike Pippin Printed Name</p>
	<p><sup>18</sup> SURVEYOR CERTIFICATION</p> <p>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.</p> <p>11/19/08 Date of Survey</p> <p>Signature and Seal of Professional Surveyor: Gary G. Eidson</p> <p>12641 Certificate Number</p>

AD 2/11/2015  
Accepted for record  
RECORDED

LEASE/WELL: STALEY STATE #11  
 LOCATION 1,650' FSL & 330' FWL  
 L (LOT 3)-30-T17S-R28E  
 CO/ST: EDDY COUNTY, NEW MEXICO  
 FIELD: RED LAKE; GLORIETA-YESO NE  
 RED LAKE; QUEEN-GRAYBURG-SAN ANDRES  
 API NO. 30-01S-36976

GR 3586  
 SPUDDED 8/26/2009  
 COMPLETED 10/22/2009 ORIGINAL YESO COMPLETION  
 2/13/2010 YESO PAY-ADD  
 2/6/2015 SAN ANDRES RECOMPLETION  
 LAT 32.8022728  
 LONG -104.22258

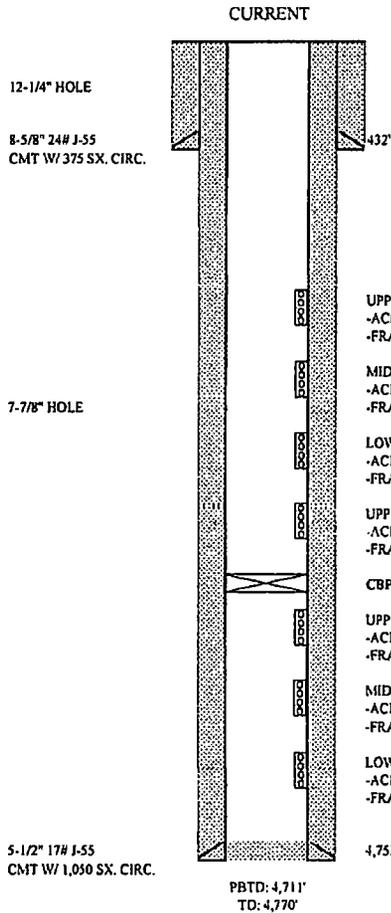
INCLINATION SURVEY DATA	
MD (ft)	Inclination (deg)
445	0.5
939	0.25
1476	0.25
1980	0.5
2518	0.75
2991	1.25
3526	1.5
4026	1
4532	1.25
4770	1.25

FORMATION TOPS PER C-105

QUEEN	988
GRAYBURG	1382
SAN ANDRES	1736
GLORIETA	3137
YESO	3238

APPROVAL TO DHC PER ART-2609-T

ORIGINAL YESO IP: 22 BOPD, 39 MCFFD, 453 BWPD  
 YESO PAY-ADD IP: 0 BOPD, 24 MCFFD, 368 BWPD  
 SAN ANDRES IP: 65 BOPD, 230 MCFFD, 238 BWPD



UPPER SAN ANDRES PERFS: 1,686-1,910' (32 HOLES)  
 -ACIDIZE W/ 1,500 GALS 7.5%  
 -FRAC W/ 27,904# 100 MESH & 174,921# 40/70 BRADY SAND IN SW

MIDDLE SAN ANDRES PERFS: 2,047-2,408' (36 HOLES)  
 -ACIDIZE W/ 1,500 GALS 7.5%  
 -FRAC W/ 28,175# 100 MESH & 297,873# 40/70 BRADY SAND IN SW

LOWER SAN ANDRES PERFS: 2,600-2,900' (30 HOLES)  
 -ACIDIZE W/ 1,500 GALS 7.5%  
 -FRAC W/ 29,793# 100 MESH & 256,424# 40/70 BRADY SAND IN SW

UPPER YESO PAY-ADD PERFS: 3,143-3,466' (84 HOLES)  
 -ACIDIZE W/ 4,500 GALS 15% NEFE  
 -FRAC W/ 147,330# 16/30 & 57,067# 12/20 SAND IN XL GEL

CBP @ 3,000'

UPPER YESO PERFS: 3,561-3,759' (56 HOLES)  
 -ACIDIZE W/ 5,549 GALS 15% NEFE  
 -FRAC W/ 79,623# PREM WHITE 16/30 & 27,197# SUPER LC SAND IN XL GEL

MIDDLE YESO PERFS: 3,858-4,084' (76 HOLES)  
 -ACIDIZE W/ 6,175 GALS 15% NEFE  
 -FRAC W/ 65,950# PREM WHITE 16/30 & 41,899# SUPER LC SAND IN XL GEL

LOWER YESO PERFS: 4,196-4,567' (82 HOLES)  
 -ACIDIZE W/ 5,000 GALS 15% NEFE  
 -FRAC W/ 140,987# PREM WHITE 16/30 & 25,604# SUPER LC SAND IN XL GEL

KDZ 12-06-2018

LEASE/WELL: STALEY STATE #11  
 LOCATION 1,650' FSL & 330' FWL  
 L (LOT 3)-30-T17S-R28E  
 CO/ST: EDDY COUNTY, NEW MEXICO  
 FIELD: RED LAKE, GLORIETA-YESO NE  
 RED LAKE, QUEEN-GRAYBURG-SAN ANDRES  
 API NO. 30-015-36976

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 SPUDDED 8/26/2009  
 COMPLETED 10/22/2009 ORIGINAL YESO COMPLETION  
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