

OKLAHOMA CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
P.O. BOX 52000
OKLAHOMA CITY, OK 73152-2000
(Rule 165:10-3-1)

API NUMBER: 049 25194

Approval Date: 04/18/2018

Expiration Date: 10/18/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 29 Twp: 4N Rge: 3W

County: GARVIN

SPOT LOCATION:

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 200 425

Lease Name: LUSITANO

Well No: 1-20-17LWH

Well will be 200 feet from nearest unit or lease boundary.

Operator Name: RIMROCK RESOURCE OPERATING LLC

Telephone: 9183014700

OTC/OCC Number: 23802 0

RIMROCK RESOURCE OPERATING LLC
20 E 5TH ST STE 1300
TULSA, OK 74103-4462

JONNIE MCCALED
18437 EAST COUNTY ROAD 1540
LINDSAY OK 73052

Formation(s) (Permit Valid for Listed Formations Only):

	Name	Depth	Name	Depth
1	WOODFORD	8496	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 661565
660818
673293

Location Exception Orders: 673202

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 16000

Ground Elevation: 981

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 210

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 5000 Average: 3000

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? N

Wellhead Protection Area? N

Pit is not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: FAIRMONT

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 18-34217

H. SEE MEMO

This permit does not address the right of entry or settlement of surface damages.

The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.

Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

PIT 2 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: OIL BASED

Chlorides Max: 300000 Average: 200000

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? N

Wellhead Protection Area? N

Pit is not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: FAIRMONT

HORIZONTAL HOLE 1

Sec 17 Twp 4N Rge 3W County GARVIN

Spot Location of End Point: SE SE NW SE

Feet From: SOUTH 1/4 Section Line: 1375

Feet From: EAST 1/4 Section Line: 1350

Depth of Deviation: 8251

Radius of Turn: 800

Direction: 353

Total Length: 6492

Measured Total Depth: 16000

True Vertical Depth: 8615

End Point Location from Lease,
Unit, or Property Line: 1350

Notes:

Category

Description

DEEP SURFACE CASING

4/4/2018 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

4/4/2018 - G71 - OCC 165:10-3-10 REQUIRES:

1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE;

2) WITH NOTICE ALSO GIVEN 48 HOURS IN ADVANCE OF HYDRAULIC FRACTURING ALL WELLS TO BOTH THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES, USING THE "FRAC NOTICE FORM" FOUND AT THE FOLLOWING LINK: OCCEWEB.COM/OG/OGFORMS.HTML; AND,

3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION THE HYDRAULIC FRACTURING OPERATIONS, USING THE FOLLOWING LINK: FRACFOCUS.ORG

LOCATION EXCEPTION - 673202

4/12/2018 - G57 - (I.O.) 20 & 17-4N-3W
X660818 WDFD 20-4N-3W
X661565 WDFD 17-4N-3W
COMPL. INT. (20-4N-3W) NCT 165' FSL, NCT 0' FNL, NCT 330' FEL
COMPL. INT. (17-4N-3W) NCT 0' FSL, NCT 165' FNL, NCT 330' FEL
RIMROCK RESOUCOE OPERATING, LLC.
2-6-2018

MEMO

4/4/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

This permit does not address the right of entry or settlement of surface damages.

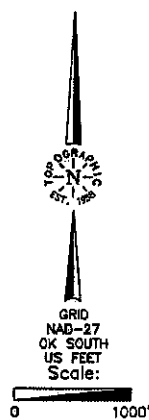
049 25194 LUSITANO 1-20-17LWH

The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.

Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

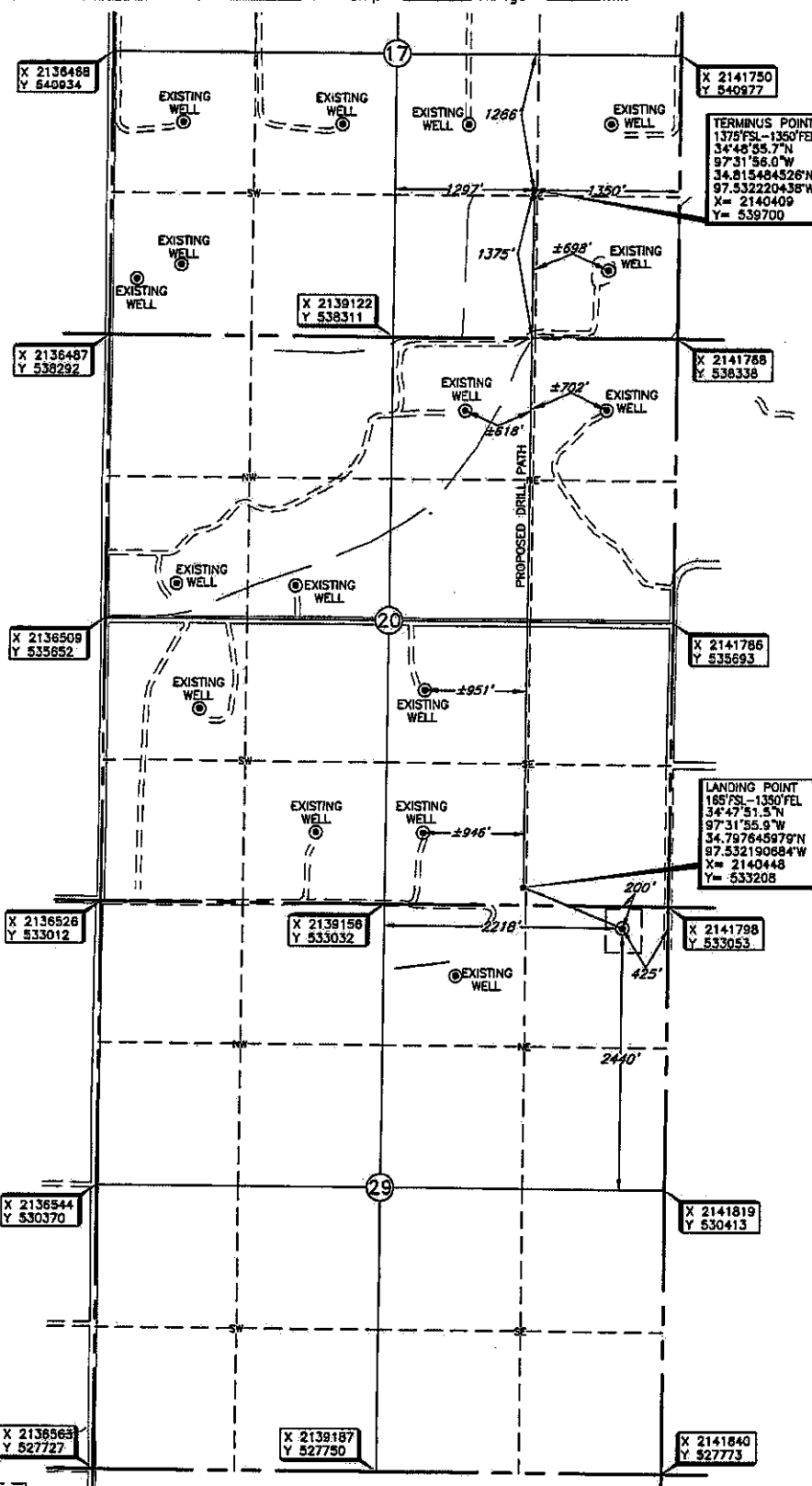
Category	Description
SPACING - 660818	4/12/2018 - G57 - (640)(HOR) 20-4N-3W EST WDFD, OTHERS POE TO BHL NCT 165' FNL & FSL, NCT 330' FEL & FWL
SPACING - 661565	4/12/2018 - G57 - (640)(HOR) 17-4N-3W EST WDFD, OTHERS POE TO BHL NCT 165' FNL & FSL, NCT 330' FEL & FWL (COEXIST SP. ORDER 409484 WDFD)
SPACING - 673293	4/12/2018 - G57 - (I.O.) 20 & 17-4N-3W EST MULTIUNIT HORIZONTAL WELL X660818 WDFD 20-4N-3W X661565 WDFD 17-4N-3W 50% 20-4N-3W 50% 17-4N-3W RIMROCK RESOURCE OPERATING, LLC. 2-7-2018
SURFACE CASING	4/4/2018 - G71 - MIN. 400' PER ORDER 64240

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Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District
Office of the Conservation Division as to when Surface Casing will be run.



GARVIN County, Oklahoma
200' FNL-425' FEL Section 29 Township 4N Range 3W I.M.

LANDING POINT, TERMINUS POINT, AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED.



Operator: RIMROCK RESOURCE OPERATING, LLC
Lease Name: LUSTIANO
Topography & Vegetation Loc. fell in level pasture, ±195' East of N-S drain, ±200' South of E-W fence.
Well No.: 1-20-17WH
ELEVATION: 981' Gr. at Stake
Good Drill Site? Yes
Reference Stakes: None
Best Accessibility to Location: From lease road at the NW Corner of Section 29
Distance & Direction: From Hwy Jet or Town. From the Jct. of St. Hwy. 19 & St. Hwy. 76 east of Lindsay, OK., go east on St. Hwy. 19 for ±3.2 miles, then south for ±2.0 miles to the Northwest Corner of Section 29, T4N-R3W, then east on lease road ±0.6 miles.

THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY.

DATUM: NAD-27
LAT: 34°47'47.9\"/>

Invoice # 289842 Date of Drawing: Mar. 8, 2018
Date Staked: Mar. 5, 2018 JGW/TR

CERTIFICATE:

I, Thomas L. Howell, an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein.

Thomas L. Howell
Oklahoma Lic. No. 1433

