

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

API NUMBER: 011 23863 A

Approval Date: 09/29/2017
Expiration Date: 09/29/2018

Horizontal Hole Oil & Gas

Amend reason: CHANGE WELL NAME; CHANGE SURFACE LOCATION; CHANGE BOTTOM HOLE LOCATION; CHANGE DISPOSAL METHOD

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 22 Twp: 15N Rge: 11W

County: BLAINE

SPOT LOCATION: NW NE NW NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 280 663

Lease Name: HOMSEY

Well No: 2-22-27XHM

Well will be 280 feet from nearest unit or lease boundary.

Operator Name: CONTINENTAL RESOURCES INC

Telephone: 4052349020; 4052349

OTC/OCC Number: 3186 0

CONTINENTAL RESOURCES INC
PO BOX 269000
OKLAHOMA CITY, OK 73126-9000

RODNEY E & CAROL A COWAN
85455 NORTH 2600 ROAD
WATONGA OK 73772

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

Name	Depth	Name	Depth
1 MISSISSIPPI	11210	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 579436
667042
578803

Location Exception Orders: 667747

Increased Density Orders: 664809

Pending CD Numbers:

Special Orders:

Total Depth: 21584

Ground Elevation: 1455

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 70

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: 8000 Average: 5000

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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is ALLUVIAL

Pit Location Formation: ALLUVIUM

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

PERMIT NO: 17-33174

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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is ALLUVIAL

Pit Location Formation: ALLUVIUM

HORIZONTAL HOLE 1

Sec 27 Twp 15N Rge 11W County BLAINE

Spot Location of End Point: S2 SW SW SW

Feet From: SOUTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 330

Depth of Deviation: 11062

Radius of Turn: 485

Direction: 184

Total Length: 9760

Measured Total Depth: 21584

True Vertical Depth: 12090

End Point Location from Lease,
Unit, or Property Line: 50

Notes:

Category

Description

DEEP SURFACE CASING

9/19/2017 - 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

9/19/2017 - 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

INCREASED DENSITY - 664809

9/28/2017 - G60 - 22-15N-11W
X579436 MISS
9 WELLS
CONTINENTAL RESOURCES, INC.
6/13/17

INTERMEDIATE CASING

9/19/2017 - G71 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE MORROW SERIES

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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.

Category	Description
LOCATION EXCEPTION - 667747	<p>9/27/2017 - G60 - (I.O.) 22 & 27-15N-11W X579436 (22-15N-11W) MISS X578803 (27-15N-11W) MISS 50% 22-15N-11W 50% 27-15N-11W X165:10-3-28(C)(2)(B) MISS MAY BE CLOSER THAN 600' TO NEARBY WELLS ** COMPL. INT. (22-15N-11W) NCT 150' FNL, NCT 0' FSL, NCT 330' FWL COMPL. INT. (27-15N-11W) NCT 0' FNL, NCT 150' FSL, NCT 330' FWL NO OP. NAMED 9/1/17</p> <p>**WELLS WILL BE CORRECTED AT HEARING FOR FINAL ORDER LOCATION EXCEPTION PER OPERATOR</p>
MEMO	<p>9/19/2017 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS (REQUIRED - NORTH CANADIAN RIVER), PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT</p>
SPACING - 578803	<p>9/28/2017 - G60 - (640) 27-15N-11W EXT 563805 MISS, OTHERS</p>
SPACING - 579436	<p>9/27/2017 - G60 - (640) 22-15N-11W EXT 563805 MISS, OTHERS</p>
SPACING - 667042	<p>9/27/2017 - G60 - (640) 22 & 27-15N-11W EST MULTIUNIT HORIZONTAL WELL X579436 (22-15N-11W) MISS X578803 (27-15N-11W) MISS 50% 22-15N-11W 50% 27-15N-11W NO OP. NAMED 8/16/17</p>

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