

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

API NUMBER: 039 22525 A

Approval Date: 03/08/2019
Expiration Date: 09/08/2020

Horizontal Hole
Oil & Gas
Multi Unit

PERMIT TO DRILL

WELL LOCATION: Sec: 08 Twp: 15N Rge: 15W County: CUSTER
SPOT LOCATION: FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 230 330

Lease Name: CLAUSSEN Well No: 1-8-5XHM Well will be 230 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

MICHAEL & ARDIS CHRISTENSEN
8746 RIVER HOLLOW DRIVE
CORDOVA TN 38016

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

	Name	Depth	Name	Depth
1	SPRINGER	12117	6	
2	MISSISSIPPIAN	13432	7	
3	WOODFORD	14002	8	
4			9	
5			10	

Spacing Orders: 641555
674160
132675
583766
678980

Location Exception Orders: 678911

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 23548 Ground Elevation: 1828 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 440

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: 3000 Average: 2000

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 17-33487
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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 05 Twp 15N Rge 15W County CUSTER

Spot Location of End Point: N2 NE NE NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 330

Depth of Deviation: 13050

Radius of Turn: 382

Direction: 360

Total Length: 9898

Measured Total Depth: 23548

True Vertical Depth: 14050

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

Notes:

Category

Description

DEEP SURFACE CASING

2/7/2019 - 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

2/7/2019 - 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

INTERMEDIATE CASING

2/7/2019 - 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.

039 22525 CLAUSSEN 1-8-5XHM

Category	Description
LOCATION EXCEPTION - 678911	3/8/2019 - G58 - (I.O.) 8 & 5-15N-15W X132675 SPRG X583766 WDFD X641555 MSSP X674160 SPRG, MSSP, WDFD COMPL. INT. (8-15N-15W) NCT 150' FSL, NCT 0' FNL, NCT 330' FEL COMPL. INT. (5-15N-15W) NCT 0' FSL, NCT 150' FNL, NCT 330' FEL CONTINENTAL RESOURCES, INC. 6/8/2018
MEMO	2/7/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 132675	3/8/2019 - G58 - (640) 8-15N-15W EST OTHER EXT 105364 SPRG, OTHERS
SPACING - 583766	3/8/2019 - G58 - (640) 8-15N-15W VAC OTHER EXT 489597/209156 CSTR, MSSLM, KDRK (VAC ALL BY 641555), WDFD, OTHERS
SPACING - 641555	3/8/2019 - G58 - (640) 8-15N-15W VAC 583766 CSTR, MSSLM, KDRK EST MSSP
SPACING - 674160	3/8/2019 - G58 - (640) 5-15N-15W EXT 132675 SPRG, OTHERS EXT 641555 MSSP EXT 583766 WDFD, OTHER
SPACING - 678980	3/8/2019 - G58 - (I.O.) 8 & 5-15N-15W EST MULTIUNIT HORIZONTAL WELL X132675 SPRG X583766 WDFD X641555 MSSP X674160 SPRG, MSSP, WDFD 50% 8-15N-15W 50% 5-15N-15W CONTINENTAL RESOURCES, INC. 6/11/2018

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