

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

API NUMBER: 011 23811 A

Approval Date: 05/31/2017
Expiration Date: 11/30/2017

Horizontal Hole Oil & Gas

Amend reason: ADD SOIL FARMING AND CHANGE OIL CUTTINGS DISPOSAL

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 30 Twp: 15N Rge: 12W County: BLAINE
SPOT LOCATION: NW NE NW NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 230 1666

Lease Name: LUTTRULL Well No: 1-30-31XH 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

CAROL MCCRARY AS TRUSTEE
OF THE CAROL MCCARY LIVING TRUST
1201 N. PROUTY
WATONGA OK 73772

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

Name	Depth	Name	Depth
1 CHESTER	11096	6	
2 MISSISSIPPIAN SOLID	12191	7	
3 KINDERHOOK	12962	8	
4		9	
5		10	

Spacing Orders: 593038
128276
581219

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201702171
201702172
201702173

Special Orders:

Total Depth: 22644 Ground Elevation: 1786 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 310

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 17-32726

H. SEE MEMO

E. Haul to Commercial pit facility: Sec. 31 Twn. 12N Rng. 8W Cnty. 17 Order No: 587498

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 31 Twp 15N Rge 12W County BLAINE

Spot Location of End Point: S2 S2 SW SE

Feet From: SOUTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 1980

Depth of Deviation: 12092

Radius of Turn: 477

Direction: 183

Total Length: 9803

Measured Total Depth: 22644

True Vertical Depth: 12962

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

Notes:

Category

Description

DEEP SURFACE CASING

5/23/2017 - 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

5/23/2017 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK [HTTP://FRACFOCUS.ORG/](http://fracfocus.org/) WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE

INTERMEDIATE CASING

5/23/2017 - 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

MEMO

6/13/2017 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 1 - CUTTINGS WILL BE SOIL FARMED, PIT 2 - OBM TO VENDOR, OBM CUTTINGS TO ORDER #587498, 31-12N-8W, CANADIAN CO

PENDING CD - 201702171

5/24/2017 - G64 - (640) 30-15N-12W
EXT 581219 KDRK
REC. 5-22-2017 (M. PORTER)

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.

Category	Description
PENDING CD - 201702172	5/24/2017 - G64 - (I.O.) 30 & 31-15N-12W EST MULTIUNIT HORIZONTAL WELL X128276 CSTR 30-15N-12W X593038 MSSSD 30-15N-12W X201702171 KDRK 30-15N-12W X581219 CSTR, MSSSD, KDRK 31-15N-12W (CSTR, KDRK ASSOCIATED COMMON SOURCES OF SUPPLY TO MSSSD) 50% 30-15N-12W 50% 31-15N-12W CONTINENTAL RESOURCES, INC. REC. 5-22-2017 (M. PORTER)
PENDING CD - 201702173	5/24/2017 - G64 - (I.O.) 30 & 31-15N-12W X128276 CSTR 30-15N-12W X593038 MSSSD 30-15N-12W X201702171 KDRK 30-15N-12W X581219 CSTR, MSSSD, KDRK 31-15N-12W SHL (30-15N-12W) 200' FNL, 200' FEL ** COMPL. INT. (30-15N-12W) NCT 150' FNL, NCT 0' FSL, NCT 1320' FEL COMPL. INT. (31-15N-12W) NCT 0' FNL, NCT 150' FSL, NCT 1320' FEL CONTINENTAL RESOURCES, INC. REC. 5-22-2017 (M. PORTER) **S/B 230' FNL, 1666' FEL PER ITD; WILL BE CORRECTED AT HEARING FOR FINAL ORDER PER OPERATOR
SPACING - 128276	5/24/2017 - G64 - (640) 30-15N-12W EST CSTR, OTHERS
SPACING - 581219	5/24/2017 - G64 - (640) 31-15N-12W EXT 139124 CSTR, OTHERS EXT 579767 MSSSD EST KDRK, OTHERS
SPACING - 593038	5/24/2017 - G64 - (640) 30-15N-12W EXT OTHER EXT 581219 MSSSD

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