

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

API NUMBER: 011 23880

Approval Date: 11/17/2017

Expiration Date: 05/17/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 12 Twp: 16N Rge: 13W

County: BLAINE

SPOT LOCATION: ☐ NW ☐ SE ☐ SE ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 340 400

Lease Name: BROWN FAMILY

Well No: 1-13-24XH

Well will be 340 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

ELLEN HOUK, MICHELE & SAMUEL TENNERY
RT. 1, BOX 112
CANTON OK 73724

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

| | Name | Depth | Name | Depth |
|---|---------------|-------|------|-------|
| 1 | MISSISSIPPIAN | 9850 | 6 | |
| 2 | WOODFORD | 11520 | 7 | |
| 3 | | | 8 | |
| 4 | | | 9 | |
| 5 | | | 10 | |

Spacing Orders: 668965
651450

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201603688
201603522
201704426

Special Orders:

Total Depth: 21006

Ground Elevation: 1583

Surface Casing: 340

Depth to base of Treatable Water-Bearing FM: 90

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

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 BED AQUIFER

Pit Location Formation: MARLOW

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

PERMIT NO: 17-33290

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 BED AQUIFER

Pit Location Formation: MARLOW

HORIZONTAL HOLE 1

Sec 24 Twp 16N Rge 13W County BLAINE

Spot Location of End Point: SW SE SE SE

Feet From: SOUTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 350

Depth of Deviation: 10618

Radius of Turn: 382

Direction: 179

Total Length: 9788

Measured Total Depth: 21006

True Vertical Depth: 11520

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

Notes:

Category

Description

HYDRAULIC FRACTURING

11/7/2017 - 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

INTERMEDIATE CASING

11/7/2017 - 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

11/7/2017 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PIT'S PER OPERATOR REQUEST; PIT 1 – WBM & CUTTINGS WILL BE SOIL FARMED; PIT 2 – OBM RETURNED TO VENDOR, OBM CUTTINGS TO ORDER 587498, 31-12N-8W, CANADIAN CO.

PENDING CD - 201603522

11/16/2017 - G57 - (I.O.) 13 & 24-16N-13W
X668965 WDFD, MSSP 13-16N-13W
X651450 WDFD, MSSP 24-16N-13W
COMPL. INT.(13-16N-13W) NCT 150' FNL, NCT 0' FSL, NCT 330' FEL
COMPL. INT.(24-16N-13W) NCT 0' FNL, NCT 150' FSL, NCT 330' FEL
CONTINENTAL RESOURCES, INC.
REC 10/9/2017 (MILLER)

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

011 23880 BROWN FAMILY 1-13-24XH

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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 |
|------------------------|--|
| PENDING CD - 201603688 | 11/16/2017 - G57 - (I.O.) 13 & 24-16N-13W EST MULTIUNIT HORIZONTAL WELL X668965 WDFD, MSSP 13-16N-13W X651450 WDFD, MSSP 24-16N-13W (WDFD ASSOICATED COMMON SOURCE OF SUPPLY MSSP) 50% 13-16N-13W 50% 24-16N-13W CONTINENTAL RESOURCES, INC. REC 08/30/2017 (DUNN) |
| PENDING CD - 201704426 | 11/17/2017 - G57 - 24-16N-13W X651450 MSSP 1 WELL NO OP. NAMED REC 08/30/2017 (DUNN) |
| SPACING - 651450 | 11/16/2017 - G57 - (640) 24-16N-13W VAC 192732 MISS EST MSSP EXT 589988 WDFD, OTHERS EXT OTHER |
| SPACING - 668965 | 11/16/2017 - G57 - (640) 13-16N-13W VAC 228472 MSSLM, CSTR EXT 651450 MSSP, WDFD |

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