

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

API NUMBER: 039 22513 A

Approval Date: 08/11/2017  
Expiration Date: 02/11/2018

Horizontal Hole Oil & Gas

Amend reason: CHANGE WELL NUMBER; UPDATE ORDERS;  
CORRECT PIT SYSTEM

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 11 Twp: 14N Rge: 15W

County: CUSTER

SPOT LOCATION: ☐ SW ☐ SW ☐ SE ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 275 1410

Lease Name: ROOF

Well No: 1-14-23XH

Well will be 275 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

LETHA JONES  
5801 N OAKWOOD RD E 119  
ENID OK 73703

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	14367	6	
2	WOODFORD	15403	7	
3			8	
4			9	
5			10	

Spacing Orders: 655494  
142621  
668424  
669828

Location Exception Orders: 669829

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 24398

Ground Elevation: 1718

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 400

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

PIT 1 INFORMATION

Type of Pit System: ON SITE

Type of Mud System: WATER BASED

Chlorides Max: 3000 Average: 2500

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: 1B

Liner required for Category: 1B

Pit Location is AP/TE DEPOSIT

Pit Location Formation: TERRACE

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 17-32926

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: ON SITE

Type of Mud System: OIL BASED

Chlorides Max: 300000 Average: 250000

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: 3

Liner required for Category: 3

Pit Location is AP/TE DEPOSIT

Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 23 Twp 14N Rge 15W County CUSTER

Spot Location of End Point: S2 S2 S2 SW

Feet From: SOUTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 1320

Depth of Deviation: 13891

Radius of Turn: 477

Direction: 182

Total Length: 9758

Measured Total Depth: 24398

True Vertical Depth: 15403

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

Notes:

Category

Description

DEEP SURFACE CASING

8/9/2017 - G58 - 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

8/9/2017 - G58 - 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](http://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](http://FRACFOCUS.ORG)

LOCATION EXCEPTION - 669829

1/10/2018 - G75 - (I.O.) 14 & 23-14N-15W  
X142621 MSSP 14 & 23-14N-15W  
X655494 WDFD 14-14N-15W  
X668424 WDFD 23-14N-15W  
COMPL. INT. (14-14N-15W) NCT 150' FNL, NCT 0' FSL, NCT 330' FWL  
COMPL. INT. (23-14N-15W) NCT 0' FNL, NCT 150' FSL, NCT 330' FWL  
CONTINENTAL RESOURCES, INC.  
11-7-2017

MEMO

8/9/2017 - G58 - PITS 1 & 2 - CONCRETE LINED PIT PER OPERATOR REQUEST, PIT 1 – CUTTINGS WILL BE SOIL FARMED, PIT 2 – OBM RETURNED TO VENDOR, OBM CUTTINGS TO R360 ORDER 587498, 31-12N-8W, CANADIAN CO.

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

039 22513 ROOF 1-14-23XH

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 - 142621	8/11/2017 - G64 - (640) 14 & 23-14N-15W EXT 65865 MSSP EXT OTHERS
SPACING - 655494	8/11/2017 - G64 - (640) 14-14N-15W VAC OTHER EST WDFD, OTHERS
SPACING - 668424	1/10/2018 - G75 - (640) 23-14N-15W EXT 655494 WDFD
SPACING - 669828	1/10/2018 - G75 - (I.O.) 14 & 23-14N-15W EST MULTIUNIT HORIZONTAL WELL X142621 MSSP 14 & 23-14N-15W X655494 WDFD 14-14N-15W X668424 WDFD 23-14N-15W (WDFD ASSOCIATED COMMON SOURCE OF SUPPLY TO MSSP) 50% 14-14N-15W 50% 23-14N-15W CONTINENTAL RESOURCES, INC. 11-7-2017

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