

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

API NUMBER: 051 24393 A

Approval Date: 06/21/2018  
Expiration Date: 12/21/2018

Horizontal Hole Oil & Gas  
Multi Unit

Amend reason: BHL

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 20 Twp: 7N Rge: 6W

County: GRADY

SPOT LOCATION: SW NE NW NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 350 1687

Lease Name: SCHOOF

Well No: 4-17-8-5XHS

Well will be 350 feet from nearest unit or lease boundary.

Operator CONTINENTAL RESOURCES INC  
Name:

Telephone: 4052349020; 4052349

OTC/OCC Number: 3186 0

CONTINENTAL RESOURCES INC  
PO BOX 268870  
OKLAHOMA CITY, OK 73126-9000

J W & MARIBETH SMITH, CO-TRUSTEES  
2155 COUNTY STREET 2890  
CHICKASHA OK 73018

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

Name	Depth	Name	Depth
1 SPRINGER	12391	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 164772  
172459  
136547

Location Exception Orders:

Increased Density Orders: 688350  
687134  
684072

Pending CD Numbers: 201808938  
201808939

Special Orders:

Total Depth: 23298 Ground Elevation: 1094

**Surface Casing: 1500**

Depth to base of Treatable Water-Bearing FM: 550

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 BED AQUIFER

Pit Location Formation: DUNCAN

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-34594  
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 BED AQUIFER

Pit Location Formation: DUNCAN

## HORIZONTAL HOLE 1

Sec 08 Twp 7N Rge 6W County GRADY

Spot Location of End Point: N2 N2 NE NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 660

Depth of Deviation: 11681

Radius of Turn: 477

Direction: 5

Total Length: 10868

Measured Total Depth: 23298

True Vertical Depth: 12391

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

### Notes:

#### Category

#### Description

DEEP SURFACE CASING

6/5/2018 - 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

6/5/2018 - 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](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)

INCREASED DENSITY - 681734

1/15/2019 - G58 - 8-7N-6W  
X172459 SPRG  
2 WELLS  
CONTINENTAL RESOURCES, INC.  
REC 8/20/2018

INCREASED DENSITY - 684072

1/15/2019 - G58 - 17-7N-6W  
X164772 SPRG  
3 WELLS  
CONTINENTAL RESOURCES, INC.  
10/1/2018

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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.

051 24393 SCHOOF 4-17-8-5XHS

Category	Description
INCREASED DENSITY - 688350	1/15/2019 - G58 - 20-7N-6W X136547 SPRG 5 WELLS CONTINENTAL RESOURCES, INC. 12/14/2018
MEMO	6/5/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 201803466	6/21/2018 - G58 - 17-7N-6W X164772 SPRG 3 WELLS NO OP. NAMED REC 5/21/2018 (NORRIS)
PENDING CD - 201808938	1/15/2019 - G58 - (I.O.) 8, 17, & 20-7N-6W EST MULTIUNIT HORIZONTAL WELL X164772 SPRG 17-7N-6W X172459 SPRG 8-7N-6W X136547 SPRG 20-7N-6W 63% 17-7N-6W 33% 8-7N-6W 4% 20-7N-6W NO OP. NAMED REC 11/19/2018 (DENTON)
PENDING CD - 201808939	1/15/2019 - G58 - (I.O.) 8, 17, & 20-7N-6W X164772 SPRG 17-7N-6W X172459 SPRG 8-7N-6W X136547 SPRG 20-7N-6W X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO PROPOSED WELL COMPL. INT. 20-7N-6W NCT 1320' FNL, NCT 0' FNL, NCT 660' FWL COMPL. INT. 17-7N-6W NCT 0' FSL, NCT 0' FNL, NCT 660' FWL COMPL. INT. 8-7N-6W NCT 0' FSL, NCT 150' FNL, NCT 660' FWL NO OP. NAMED REC 11/19/2018 (DENTON)
SPACING - 136547	1/15/2019 - G58 - (640) 20-7N-6W EXT OTHER EST SPRG, OTHERS
SPACING - 164772	6/21/2018 - G58 - (640) 17-7N-6W EST OTHERS EXT OTHERS EXT 136547 SPRG
SPACING - 172459	6/21/2018 - G58 - (640) 8-7N-6W EXT OTHERS EXT 75509 SPRG, OTHERS