

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

API NUMBER: 011 23848 A

Approval Date: 08/24/2017
Expiration Date: 02/24/2018

Horizontal Hole Oil & Gas
Multi Unit

Amend reason: ADD MSSP FORMATION, UPDATE ORDERS

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 14 Twp: 14N Rge: 13W

County: BLAINE

SPOT LOCATION: ☐ SE ☐ NE ☐ NW ☐ NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 363 1120

Lease Name: MW

Well No: 1-14-23XH

Well will be 363 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 269000
OKLAHOMA CITY, OK 73126-9000

RUTH WILLIAMS
8700 CR 100
REDROCK OK 74651

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	12852	6	
2	WOODFORD	13671	7	
3			8	
4			9	
5			10	

Spacing Orders: 654535
654366
686782

Location Exception Orders: 686781

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 23643

Ground Elevation: 1657

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 190

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: 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: 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: 17-32920

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: 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: C

Liner not required for Category: C

Pit Location is AP/TE DEPOSIT

Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 23 Twp 14N Rge 13W County BLAINE

Spot Location of End Point: S2 SW SE SW

Feet From: SOUTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 1650

Depth of Deviation: 13263

Radius of Turn: 395

Direction: 173

Total Length: 9759

Measured Total Depth: 23643

True Vertical Depth: 14182

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

Notes:

Category

Description

DEEP SURFACE CASING

8/17/2017 - 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

8/17/2017 - 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; 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

8/17/2017 - G58 - 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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011 23848 MW 1-14-23XH

Category	Description
LOCATION EXCEPTION - 686781	<p>2/13/2019 - G56 - (F.O.) 14 & 23-14N-13W X654535 WDFD 14-14N-13W X654366 WDFD 23-14N-13W (14-14N-13W) FIRST PERF MSSP 521' FNL, 1585' FWL LAST PERF MSSP (14-14N-13W) 570' FNL, 1591' FWL FIRST PERF WDFD (14-14N-13W) 627' FNL, 1595' FWL LAST PERF WDFD (14-14N-13W) 2199' FSL, 1671' FWL FIRST PERF MSSP (14-14N-13W) 2141' FSL, 1672' FWL LAST PERF MSSP (14-14N-13W) 1960' FSL, 1673' FWL FIRST PERF WDFD (14-14N-13W) 1902' FSL, 1674' FWL LAST PERF WDFD (14-14N-13W) 641' FSL, 1671' FWL FIRST PERF MSSP (14-14N-13W) 583' FSL, 1673' FWL LAST PER MSSP (14-14N-13W) 447' FSL, 1677' FWL FIRST PERF WDFD (14-14N-13W) 403' FSL, 1678' FWL LAST PERF WDFD (14-14N-13W) 42' FSL, 1679' FWL FIRST PERF (23-14N-13W) 16' FNL, 1678' FWL LAST PERF WDFD (23-14N-13W) 663' FSL, 1650' FWL CONTINENTAL RESOURCES, INC. 11/16/2018</p>
MEMO	<p>8/17/2017 - G58 - PITS 1 & 2 - CONCRETE LINED PIT PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT</p>
SPACING - 654366	<p>2/13/2019 - G56 - (640) 23-14N-13W EXT 579938 WDFD, OTHER EST OTHER</p>
SPACING - 654535	<p>2/13/2019 - G56 - (640) 14-14N-13W VAC OTHER EXT 579938 WDFD</p>
SPACING - 686782	<p>2/13/2019 - G56 - (F.O.) 14 & 23-14N-13W EST MULTIUNIT HORIZONTAL WELL X654535 MSSP, WDFD (14-14N-13W) X654366 MSSP, WDFD (23-14N-13W) (WDFD IS AN ADJACENT COMMON SOURCE OF SUPPLY TO MSSP) 48.63% 14-14N-13W 51.37% 23-14N-13W CONTINENTAL RESOURCES, INC. 11/16/2018</p>

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