

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

API NUMBER: 011 23594 A

Approval Date: 07/27/2018

Expiration Date: 01/27/2019

Horizontal Hole Oil & Gas

PERMIT TO RECOMPLETE

WELL LOCATION: Sec: 22 Twp: 16N Rge: 10W

County: BLAINE

SPOT LOCATION: ☐ NW ☐ SW ☐ SE ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 350 1150

Lease Name: LUDWIG

Well No: 7-22-15XH

Well will be 350 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

BRYCE LEGRAND CASTONGUAY
25091 NORTH 2690 ROAD
OMEGA OK 73764

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

	Name	Depth	Name	Depth
1	MISSISSIPPI SOLID	9725	6	
2	WOODFORD	10350	7	
3			8	
4			9	
5			10	

Spacing Orders: 598294
598582
651673
676968

Location Exception Orders: 679394
680649

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 20231

Ground Elevation: 1249

Surface Casing: 1502 IP

Depth to base of Treatable Water-Bearing FM: 40

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

Approved Method for disposal of Drilling Fluids:

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.

HORIZONTAL HOLE 1

Sec 15 Twp 16N Rge 10W County BLAINE

Spot Location of End Point: NW NW NE NE

Feet From: NORTH 1/4 Section Line: 45

Feet From: EAST 1/4 Section Line: 1300

Depth of Deviation: 9786

Radius of Turn: 380

Direction: 358

Total Length: 9848

Measured Total Depth: 20231

True Vertical Depth: 10350

End Point Location from Lease,
Unit, or Property Line: 45

Notes:

Category

Description

COMPLETION INTERVAL

6/22/2018 - G75 - 22-16N-10W

FIRST PERF MSSSD 711' FSL & 1145' FEL
LAST PERF MSSSD 1059' FSL & 1232' FEL
FIRST PERF WDFD 1120' FSL & 1244' FEL
LAST PERF WDFD 1301' FSL & 1276' FEL
FIRST PERF MSSSD 1362' FSL & 1285' FEL
LAST PERF MSSSD 1484' FSL & 1302' FEL
FIRST PERF WDFD 1544' FSL & 1309' FEL
LAST PERF WDFD 16' FNL & 1326' FEL

PER AS DRILLED PLATS REQUESTED BY OCC AND SUPPLIED BY OPERATOR

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: OCCWEB.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

LOCATION EXCEPTION - 679394

6/22/2018 - G75 - (F.O.) 22 & 15-16N-10W
X598582 WDFD 15-16N-10W
X598294 MSSSD, WDFD 22-16N-10W ++
X165:10-3-28(C)(2)(B) WITHIN 403' OF LUDWIG 6-22-15XH & WITHIN 230' OF LUDWIG 8-22-15XH
22-16N-10W
SHL (22-16N-10W) 350' FSL, 1150' FEL
FIRST PERF MSSSD (22-16N-10W) 711' FSL & 1145' FEL
FIRST PERF WDFD (22-16N-10W) 1120' FSL & 1244' FEL
LAST PERF MSSSD (22-16N-10W) 1484' FSL & 1302' FEL
LAST PERF WDFD (22-16N-10W) 16' FNL & 1326' FEL
FIRST PERF WDFD (15-16N-10W) 66' FSL & 1331' FEL
LAST PERF WDFD (15-16N-10W) 167' FNL & 1304' FEL
CONTINENTAL RESOURCES, INC.
6-20-2018 (WELL SPUD 3-30-2016)

++ S/B X598294/651673 MSSSD, WDFD 22-16N-10W;

LOCATION EXCEPTION - 680649

7/27/2018 - G75 - NPT 679394 TO X598294/651673 MSSSD, WDFD 22-16N-10W

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

011 23594 LUDWIG 7-22-15XH

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 - 598294	8/14/2017 - G75 - (640) 22-16N-10W EXT (VER) OTHERS EXT (VER) 586637 WDFD, OTHERS EST (VER) OTHERS EST (HOR) MSSSD, OTHER (SUPERSEDE NON-DEVELOPED NON-HORIZONTAL SPACING UNITS; COEXIST WITH PRODUCING NON-HORIZONTAL SPACING UNITS)
SPACING - 598582	6/22/2018 - G75 - (640) 15-16N-10W VAC OTHER EXT (VER) OTHERS EXT (VER) 586637 WDFD, OTHERS EST (HOR) OTHERS
SPACING - 651673	8/14/2017 - G75 - NPT 598294 POE TO BHL (MSSSD) NCT 660' FB
SPACING - 676968	6/22/2018 - G75 - (F.O.) 22 & 15-16N-10W EST MULTIUNIT HORIZONTAL WELL X598582 WDFD 15-16N-10W X598294/651673 MSSSD, WDFD 22-16N-10W (MSSSD ASSOCIATED COMMON SOURCE OF SUPPLY TO WDFD) 47.38% 22-16N-10W 52.62% 15-16N-10W CONTINENTAL RESOURCES, INC. 4-30-2018 (WELL SPUD 3-30-2016)

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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.