

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

API NUMBER: 011 23847

Approval Date: 08/23/2017

Expiration Date: 02/23/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 18 Twp: 15N Rge: 12W

County: BLAINE

SPOT LOCATION:

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 200 2137

Lease Name: LENARD TRUST

Well No: 1-18-19XH

Well will be 200 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

JACK LENARD
2521 ROCKWOOD ROAD
ENID OK 73703

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

	Name	Depth	Name	Depth
1	MISSISSIPPI LIME	11830	6	
2	MISSISSIPPIAN	12046	7	
3			8	
4			9	
5			10	

Spacing Orders: 576904

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201704557
201704559
201704560
201704561

Special Orders:

Total Depth: 22151

Ground Elevation: 1699

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 330

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: RUSH SPRINGS

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 17-33029

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: 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 BED AQUIFER

Pit Location Formation: RUSH SPRINGS

HORIZONTAL HOLE 1

Sec 19 Twp 15N Rge 12W County BLAINE

Spot Location of End Point: SW SW SW SE

Feet From: SOUTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 2630

Depth of Deviation: 11569

Radius of Turn: 477

Direction: 185

Total Length: 9833

Measured Total Depth: 22151

True Vertical Depth: 12046

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

Notes:

Category

Description

DEEP SURFACE CASING

8/10/2017 - G58 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON 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; 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

8/9/2017 - 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

MEMO

8/9/2017 - G58 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 1 – WBM & CUTTINGS TO BE SOIL FARMED; PIT 2 – OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

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.

011 23847 LENARD TRUST 1-18-19XH

Category	Description
PENDING CD - 201704557	8/11/2017 - G75 - (E.O.)(640) 19-15N-12W EXT 659429 MSSP, OTHER CONTINENTAL RESOURCES, INC. REC 8-22-2017 (M. PORTER)
PENDING CD - 201704559	8/11/2017 - G75 - (E.O.) 18 & 19-15N-12W EST MULTIUNIT HORIZONTAL WELL X576904 MSSLM, OTHERS 18-15N-12W X201704557 MSSP, OTHER 19-15N-12W 50% 18-15N-12W 50% 19-15N-12W CONTINENTAL RESOURCES, INC. REC 8-22-2017 (M. PORTER)
PENDING CD - 201704560	8/11/2017 - G75 - (E.O.) 18 & 19-15N-12W X576904 MSSLM, OTHERS 18-15N-12W X201704557 MSSP, OTHER 19-15N-12W COMPL. INT. (18-15N-12W) NCT 150' FNL, NCT 0' FSL, NCT 1320' FEL COMPL. INT. (19-15N-12W) NCT 0' FNL, NCT 150' FSL, NCT 1320' FEL CONTINENTAL RESOURCES, INC. REC 8-22-2017 (M. PORTER)
PENDING CD - 201704561	8/11/2017 - G75 - (E.O.) 18-15N-12W X576904 MSSLM 1 WELL CONTINENTAL RESOURCES, INC. HEARING 8-29-2017
SPACING - 576904	8/10/2017 - G75 - (640) 18-15N-12W EXT OTHERS EST MSSLM, OTHERS

EXHIBIT: A (1 of 2)
SHEET: 8.5x11
SHL: 18-15N-12W
BHL: 19-15N-12W



API 011-23847

COVER SHEET

CONTINENTAL RESOURCES, INC.

P.O. BOX 26900 OKLAHOMA CITY, OK 73126 * (T) 1-800-256-8955 (F) 405-234-9253

Section 18 Township 15N Range 12W I.M.

Well: LENARD TRUST 1-18-19XH

County BLAINE State OK

Well:

Operator CONTINENTAL RESOURCES, INC.

Well:

NAD-83

POINT	NAME	NORTHING	EASTING	ELEVATION	LATITUDE LONGITUDE	LATITUDE LONGITUDE	DESIGN ELEVATION
W1	LENARD 1-18-19XH	285281	1815613	1699.4	N35°46'57.32" W98°32'55.61"	N35.782588 W98.515447	2,137' FEL / 200' FNL (NE/4 SEC 18)
H.S.	HEEL SLOT	285034	1815141	---	N35°46'54.84" W98°31'01.32"	N35.781901 W98.517033	2,607' FEL / 451' FNL (NE/4 SEC 18)
B.H.L.	BOTTOM HOLE LOCATION	274988	1815074	---	N35°45'15.49" W98°31'01.49"	N35.754303 W98.517080	50' FSL / 2,630' FEL
X1	EDNA-1	281692	1814289	---	N35°46'21.75" W98°31'11.45"	N35.772708 W98.519847	18-15N-12W:SW4NS2S2 TD: 10,800' 1470 FSL / 1720 FWL
X2	LENARD-1-18H	280436	1817393	---	N35°46'09.49" W98°30'33.70"	N35.769303 W98.509361	18-15N-12W:SESESESW TD: 17,494' 228 FSL / 350 FEL
X3	GARVEY A-1	280865	1815762	---	N35°46'13.65" W98°30'53.52"	N35.770459 W98.514866	18-15N-12W:NE4SW4 TD: 10,829' 1,980 S OF W LINE - 1,980 W OF E LINE
X4	GARVEY-1	278904	1813816	---	N35°45'54.16" W98°31'17.00"	N35.765043 W98.521388	19-15N-12W:NW4 TD: 10,870' 1,320 N OF S LINE - 1,320 E OF W LINE
X5	RUTH-1-19	276594	1813202	---	N35°45'31.28" W98°31'24.29"	N35.758688 W98.523415	19-15N-12W:SW4NW4CS2 TD: 10,930' 1,650' FSL / 660' FWL
X6	MACDONALDS QUARTER 1-18H	279847	1848626	---	N35°46'03.72" W98°30'36.85"	N35.767700 W98.510237	19-15N-12W:NENENWE2 TD: 17,424' E2 NW NE NE FEET FROM QTR. NORTH 330' & EAST 700'

NAD-27

POINT	NAME	NORTHING	EASTING	ELEVATION	LATITUDE LONGITUDE	LATITUDE LONGITUDE	DESIGN ELEVATION
W1	LENARD 1-18-19XH	285257	1847214	1699.4	N35°46'57.15" W98°30'54.34"	N35.782542 W98.515094	2,137' FEL / 200' FNL (NE/4 SEC 18)
H.S.	HEEL SLOT	285009	1846742	---	N35°46'54.68" W98°31'00.05"	N35.781855 W98.516679	2,607' FEL / 451' FNL (NE/4 SEC 18)
B.H.L.	BOTTOM HOLE LOCATION	274964	1846674	---	N35°45'15.33" W98°31'00.22"	N35.754258 W98.516728	50' FSL / 2,630' FEL
X1	EDNA-1	281667	1845890	---	N35°46'21.58" W98°31'10.18"	N35.772662 W98.519494	18-15N-12W:SW4NS2S2 TD: 10,800' 1470 FSL / 1720 FWL
X2	LENARD-1-18H	280411	1848993	---	N35°46'09.32" W98°30'32.43"	N35.769257 W98.509009	18-15N-12W:SESESESW TD: 17,494' 228 FSL / 350 FEL
X3	GARVEY A-1	280841	1847363	---	N35°46'13.49" W98°30'52.25"	N35.770413 W98.514514	18-15N-12W:NE4SW4 TD: 10,829' 1,980 S OF W LINE - 1,980 W OF E LINE
X4	GARVEY-1	278880	1845417	---	N35°45'53.99" W98°31'15.73"	N35.764997 W98.521035	19-15N-12W:NW4 TD: 10,870' 1,320 N OF S LINE - 1,320 E OF W LINE
X5	RUTH-1-19	276569	1844803	---	N35°45'31.11" W98°31'23.02"	N35.758641 W98.523062	19-15N-12W:SW4NW4CS2 TD: 10,930' 1,650' FSL / 660' FWL
X6	MACDONALDS QUARTER 1-18H	279871	1817025	---	N35°46'03.89" W98°30'36.12"	N35.767747 W98.510590	19-15N-12W:NENENWE2 TD: 17,424' E2 NW NE NE FEET FROM QTR. NORTH 330' & EAST 700'

Certificate of Authorization No. 7318

Date Staked: 06/26/2017
Date Drawn: 06/30/2017



Prepared By:
Petro Land Services South
10404 Vineyard Blvd.
Suite G100
Oklahoma City, OK 73120

REVISIONS				
No.	DATE	BY	DESCRIPTION	COMMENTS
00	06-30-17	MJL	ISSUED FOR APPROVAL	---

API NUMBER: 000 00000

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

Approval Date:
Expiration Date:

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 18 Twp: 15N Rge: 12W County: BLAINE
SPOT LOCATION: ☐ NE ☐ NW ☐ NW ☐ NE FEET FROM QUARTER SECTION LINES: 200 NORTH FROM EAST 213

Lease Name: LENARD TRUST

Well No: 1-18-19XH

Well will be 200 feet from nearest unit or lease boundary.

Operator Name: CONTINENTAL RESOURCES INC

Telephone: 4052349020; 4052349

DTC/OCC Number: 3186 0

CONTINENTAL RESOURCES INC
PO BOX 269000
OKLAHOMA CITY, OK 73126-9000

JACK LENARD
2521 ROCK WOOD ROAD
ENID OK 73703

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

Name	Depth	Name	Depth
1 Mississippi Lime	11,830	6	
2 Mississippian	12,046	7	
3		8	
4		9	
5		10	

Spacing Orders: 576904

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201704557, 201704559, 201704560, 201704561 } (E.O.) Hearings 8-15-2017

Special Orders:

Total Depth: 22151

Ground Elevation: 1699

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 330

Deep surface casing has been approved

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

Approved Method for disposal of Drilling Fluids:

Pit 1: water-based, closed
8K-8K ppm chlorides

Pit 2: oil-based, closed
300K-250K ppm chlorides

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

PERMIT NO: 17-33029

E. 31-12N-8W Canadian Order # 587408
H. Pit 1+2 - closed system = steel pits per operator request; Pit 1 - wbm + cuttings to be soil farmed; Pit 2 - OBM to vendor, OBM cuttings per District

**TEMPORARY AUTHORIZATION
TO DRILL**

Expiration Date: 8-18-2017

Signature: *Wanda Halling*

165:10-3-1-1

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

HORIZONTAL HOLE 1

Sec 19 Twp 15N Rge 12W County BLAINE

Spot Location of End Point: SW SW SW SE

Feet From: SOUTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 2630

Depth of Deviation: 11569

Radius of Turn: 477

Direction: 185

Total Length: 9833

Measured Total Depth: 22151

True Vertical Depth: 12,046

End Point Location from Lease,

Unit, or Property Line: 50

Application for Intent to Drill

Intermediate casing

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

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

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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.

000 00000 LENARD TRUST 1-18-19XH