

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

API NUMBER: 051 24695 A

Approval Date: 08/16/2019
Expiration Date: 02/16/2021

Horizontal Hole
Multi Unit

Oil & Gas

Amend reason: CHANGE BHL & UPDATE ORDERS

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 17 Twp: 7N Rge: 5W

County: GRADY

SPOT LOCATION: NW NE SE NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 1412 570

Lease Name: Z 21

Well No: 4-17-8XHW

Well will be 570 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

Z 22, LLC
3812 NW 6TH ST.
NEWCASTLE OK 73065

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

Name	Depth	Name	Depth
1 WOODFORD	11645	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 632237
643068
702874

Location Exception Orders: 702875

Increased Density Orders: 702803
702804

Pending CD Numbers:

Special Orders:

Total Depth: 18040

Ground Elevation: 1256

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 300

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: 5000 Average: 3000

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 not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: CHICKASHA

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

PERMIT NO: 19-36840

H. SEE MEMO

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

The duration of this permit is 18 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 not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: CHICKASHA

HORIZONTAL HOLE 1

Sec 08 Twp 7N Rge 5W County GRADY

Spot Location of End Point: N2 NE NE NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 330

Depth of Deviation: 11168

Radius of Turn: 483

Direction: 360

Total Length: 6113

Measured Total Depth: 18040

True Vertical Depth: 11645

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

Notes:

Category

Description

DEEP SURFACE CASING

8/8/2019 - 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

8/8/2019 - 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; 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

INCREASED DENSITY - 702803 (201903760)

12/4/2019 - GC2 - 17-7N-5W
X632237 WDFD
7 WELLS
CONTINENTAL RESOURCES, INC
11-25-2019

INCREASED DENSITY - 702804 (201903761)

12/4/2019 - GC2 - 8-7N-5W
X643068 WDFD
3 WELLS
CONTINENTAL RESOURCES, INC
11-25-2019

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

The duration of this permit is 18 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.

051 24695 Z 21 4-17-8XHW

LOCATION EXCEPTION - 702875 (201903767)	12/4/2019 - GC2 - (I.O.) 17 & 8-7N-5W X632237 WDFD 17-7N-5W X643068 WDFD 8-7N-5W X165:10-3-28(C)(2)(B) WDFD MAY BE CLOSER THAN 600' TO ROBERTS 1H-05, LAMBRECHT 1H-20X, LAMBRECHT 3-17-20XHW, LAMBRECHT 4-17-20XHW*** COMPL. INT. (17-7N-5W) NCT 1,320' FSL, NCT 0' FNL, NCT 330' FEL COMPL. INT. (8-7N-5W) NCT 0' FSL, NCT 150' FNL, NCT 330' FEL CONTINENTAL RESOURCES, INC 11-26-2019 ***S/B LAMBRECHT 5-17-20XHW; WILL BE ADDED PER ATTORNEY FOR OPERATOR AT FINAL HEARING
MEMO	8/8/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS (REQUIRED - WINDBURN LAKE), PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 632237	8/14/2019 - GC2 - (640)(HOR) 17-7N-5W VAC OTHERS EXT (VERT) OTHERS EST (VERT) OTHERS EST (HOR) WDFD, OTHER COMPL. INT. (WDFD) NCT 330' FB
SPACING - 643068	8/14/2019 - GC2 - (640)(HOR) 8-7N-5W VAC OTHER EXT 632237 WDFD EST OTHERS COMPL. INT. (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL
SPACING - 702874 (201903766)	12/4/2019 - GC2 - (I.O.) 17 & 8-7N-5W EST MULTIUNIT HORIZONTAL WELL X632237 WDFD 17-7N-5W X643068 WDFD 8-7N-5W 33% 17-7N-5W 67% 8-7N-5W CONTINENTAL RESOURCES, INC. 11-26-2019

EXHIBIT: A (1 of 5)
 SHEET: 8.5x11
 SHL: 17-7N-5W
 BHL-Z4 8-7N-5W
 BHL-L4 20-7N-5W
 BHL-L5 20-7N-5W



COVER SHEET

CONTINENTAL RESOURCES, INC.

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

Section 17 Township 7N Range 5W I.M.Well: Z 21 4-17-8XHWCounty GRADY State OKWell: LAMBRECHT 4-17-20XHWOperator CONTINENTAL RESOURCES, INC.Well: LAMBRECHT 5-17-20XHW

NAD-83

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
Z4	Z 21 4-17-8XHW	637163	2045384	35° 05' 01.88" -97° 44' 34.89"	35.083854 -97.743024	1412' FNL / 570' FEL (NE/4 SEC 17)	1255.77'	1256.11'
LP-Z4	LANDING POINT	637160	2044964	35° 05' 01.86" -97° 44' 39.94"	35.083850 -97.744428	1412' FNL / 990' FEL (NE/4 SEC 17)	--	--
PI-Z4	POINT OF INTERSECT	638572	2044964	35° 05' 15.83" -97° 44' 39.90"	35.087729 -97.744417	0' FNL / 990' FEL (NE/4 SEC 17)	--	--
BHL-Z4	BOTTOM HOLE LOCATION	643806	2045597	35° 06' 07.58" -97° 44' 32.11"	35.102105 -97.742254	50' FNL / 330' FEL (NE/4 SEC 8)	--	--
L4	LAMBRECHT 4-17-20XHW	637133	2045384	35° 05' 01.58" -97° 44' 34.89"	35.083772 -97.743024	1442' FNL / 570' FEL (NE/4 SEC 17)	1255.23'	1256.11'
LP-L4	LANDING POINT	637128	2044469	35° 05' 01.55" -97° 44' 45.90"	35.083764 -97.746083	1442' FNL / 1485' FEL (NE/4 SEC 17)	--	--
BHL-L4	BOTTOM HOLE LOCATION	628055	2044474	35° 03' 31.81" -97° 44' 46.11"	35.058837 -97.746141	50' FSL / 1485' FEL (SE/4 SEC 20)	--	--
L5	LAMBRECHT 5-17-20XHW	637103	2045384	35° 05' 01.28" -97° 44' 34.89"	35.083690 -97.743025	1472' FNL / 570' FEL (NE/4 SEC 17)	1254.67'	1256.11'
LP-L5	LANDING POINT	637104	2045624	35° 05' 01.29" -97° 44' 32.00"	35.083690 -97.742222	1472' FNL / 330' FEL (NE/4 SEC 17)	--	--
BHL-L5	BOTTOM HOLE LOCATION	628065	2045629	35° 03' 31.88" -97° 44' 32.22"	35.058857 -97.742282	50' FSL / 330' FEL (SE/4 SEC 20)	--	--
X-1	YATES #1-8	643142	2042089	35° 06' 01.10" -97° 45' 14.36"	35.100305 -97.753989	8-7N-5W: TD: 10,800' 700' FNL / 1,425' FWL	--	--
X-2	FORBES "A" #1	634591	2041998	35° 04' 36.52" -97° 45' 15.70"	35.076811 -97.754362	17-7N-5W: TD: 7,400' 1,320' FSL / 1,320' FWL	--	--
X-3	WINBURN #1-17	637913	2045295	35° 05' 09.30" -97° 44' 35.94"	35.085916 -97.743316	17-7N-5W: TD: 10,800' 661' FNL / 659' FEL	--	--
X-4	Z 21 #1-17-8XH	633662	2040683	35° 04' 27.36" -97° 45' 31.55"	35.074266 -97.758763	17-7N-5W: TD: 19,862' 400' FSL / 5' FWL	--	--
X-5	YATES SWD #1-17	638058	2042492	35° 05' 10.80" -97° 45' 09.66"	35.086333 -97.752683	17-7N-5W: TD: 9,000' 501' FNL / 1,816' FWL	--	--
X-6	SMBS (FORCE "A" #1)	628485	2042816	35° 03' 36.11" -97° 45' 06.05"	35.060030 -97.751680	20-7N-5W: TD: 7,370' 495' FNL / 2,145' FWL	--	--
X-7	WINBURN #1-20	629963	2041993	35° 03' 50.75" -97° 45' 15.90"	35.064096 -97.754417	20-7N-5W: TD: 11,120' 1,980' FSL / 1,320' FWL	--	--

Certificate of Authorization No. 7318

Date Staked: 8-9-19
 Date Drawn: 11-13-19



Prepared By:
 Petro Land Services South
 10400 Vineyard Blvd.
 Suite C
 Oklahoma City, OK 73120

REVISIONS

No.	DATE	BY	DESCRIPTION	COMMENTS
00	6-25-19	HG	ISSUED FOR APPROVAL	--
01	8-8-19	HG	REV'D Z 21 WELL NAME	REV'D ALL EXHIBITS
02	11-13-19	HG	REV'D Z 21 BHL/ADDED PI-Z4	REV'D EXHIBITS A1-A3

EXHIBIT: A (2 of 5)SHEET: 8.5x11SHL: 17-7N-5WBHL-Z4 8-7N-5WBHL-L4 20-7N-5WBHL-L5 20-7N-5W

COVER SHEET CONTINUED...

CONTINENTAL RESOURCES, INC.

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

Section 17 Township 7N Range 5W I.M.Well: Z 21 4-17-8XHWCounty GRADY State OKWell: LAMBRECHT 4-17-20XHWOperator CONTINENTAL RESOURCES, INC.Well: LAMBRECHT 5-17-20XHW

NAD-27

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
Z4	Z 21 4-17-8XHW	637121	2076981	35° 05' 01.64" -97° 44' 33.74"	35.083788 -97.742707	1412' FNL / 570' FEL (NE/4 SEC 17)	1255.77'	1256.11'
LP-Z4	LANDING POINT	637118	2076561	35° 05' 01.62" -97° 44' 38.80"	35.083783 -97.744110	1412' FNL / 990' FEL (NE/4 SEC 17)	--	--
PI-Z4	POINT OF INTERSECT	638530	2076560	35° 05' 15.59" -97° 44' 38.76"	35.087663 -97.744100	0' FNL / 990' FEL (NE/4 SEC 17)	--	--
BHL-Z4	BOTTOM HOLE LOCATION	643764	2077194	35° 06' 07.34" -97° 44' 30.97"	35.102039 -97.741936	50' FNL / 330' FEL (NE/4 SEC 8)	--	--
L4	LAMBRECHT 4-17-20XHW	637091	2076981	35° 05' 01.34" -97° 44' 33.74"	35.083706 -97.742706	1442' FNL / 570' FEL (NE/4 SEC 17)	1255.23'	1256.11'
LP-L4	LANDING POINT	637085	2076066	35° 05' 01.31" -97° 44' 44.75"	35.083697 -97.745765	1442' FNL / 1485' FEL (NE/4 SEC 17)	--	--
BHL-L4	BOTTOM HOLE LOCATION	628013	2076071	35° 03' 31.57" -97° 44' 44.97"	35.058770 -97.745824	50' FSL / 1485' FEL (SE/4 SEC 20)	--	--
L5	LAMBRECHT 5-17-20XHW	637061	2076981	35° 05' 01.04" -97° 44' 33.75"	35.083623 -97.742707	1472' FNL / 570' FEL (NE/4 SEC 17)	1254.67'	1256.11'
LP-L5	LANDING POINT	637062	2077221	35° 05' 01.05" -97° 44' 30.86"	35.083624 -97.741905	1472' FNL / 330' FEL (NE/4 SEC 17)	--	--
BHL-L5	BOTTOM HOLE LOCATION	628023	2077226	35° 03' 31.64" -97° 44' 31.07"	35.058790 -97.741965	50' FSL / 330' FEL (SE/4 SEC 20)	--	--
X-1	YATES #1-B	643100	2073685	35° 06' 00.86" -97° 45' 13.22"	35.100239 -97.753671	8-7N-5W: TD: 10,800' 700' FNL / 1,425' FWL	--	--
X-2	FORBES "A" #1	634549	2073595	35° 04' 36.28" -97° 45' 14.56"	35.076744 -97.754044	17-7N-5W: TD: 7,400' 1,320' FSL / 1,320' FWL	--	--
X-3	WINBURN #1-17	637871	2076892	35° 05' 09.06" -97° 44' 34.79"	35.085849 -97.742998	17-7N-5W: TD: 10,800' 661' FNL / 659' FEL	--	--
X-4	Z 21 #1-17-8XH	633619	2072280	35° 04' 27.12" -97° 45' 30.40"	35.074200 -97.758445	17-7N-5W: TD: 19,862' 400' FSL / 5' FWL	--	--
X-5	YATES SWD #1-17	638016	2074089	35° 05' 10.56" -97° 45' 08.52"	35.086267 -97.752365	17-7N-5W: TD: 9,000' 501' FNL / 1,816' FWL	--	--
X-6	SMBS (FORCE "A" #1)	628443	2074413	35° 03' 35.87" -97° 45' 04.90"	35.059964 -97.751362	20-7N-5W: TD: 7,370' 495' FNL / 2,145' FWL	--	--
X-7	WINBURN #1-20	629921	2073590	35° 03' 50.51" -97° 45' 14.76"	35.064029 -97.754099	20-7N-5W: TD: 11,120' 1,980' FSL / 1,320' FWL	--	--

Certificate of Authorization No. 7318

Date Staked: 8-9-19

Date Drawn: 11-13-19



Prepared By:
Petro Land Services South
10400 Vineyard Blvd.
Suite C
Oklahoma City, OK 73120

CURRENT REV.: 2

EXHIBIT: A (3 of 5)
SHEET: 8.5x14
SHL: 17-7N-5W
BHL-Z4 8-7N-5W

PETRO LAND SERVICES SOUTH, LLC

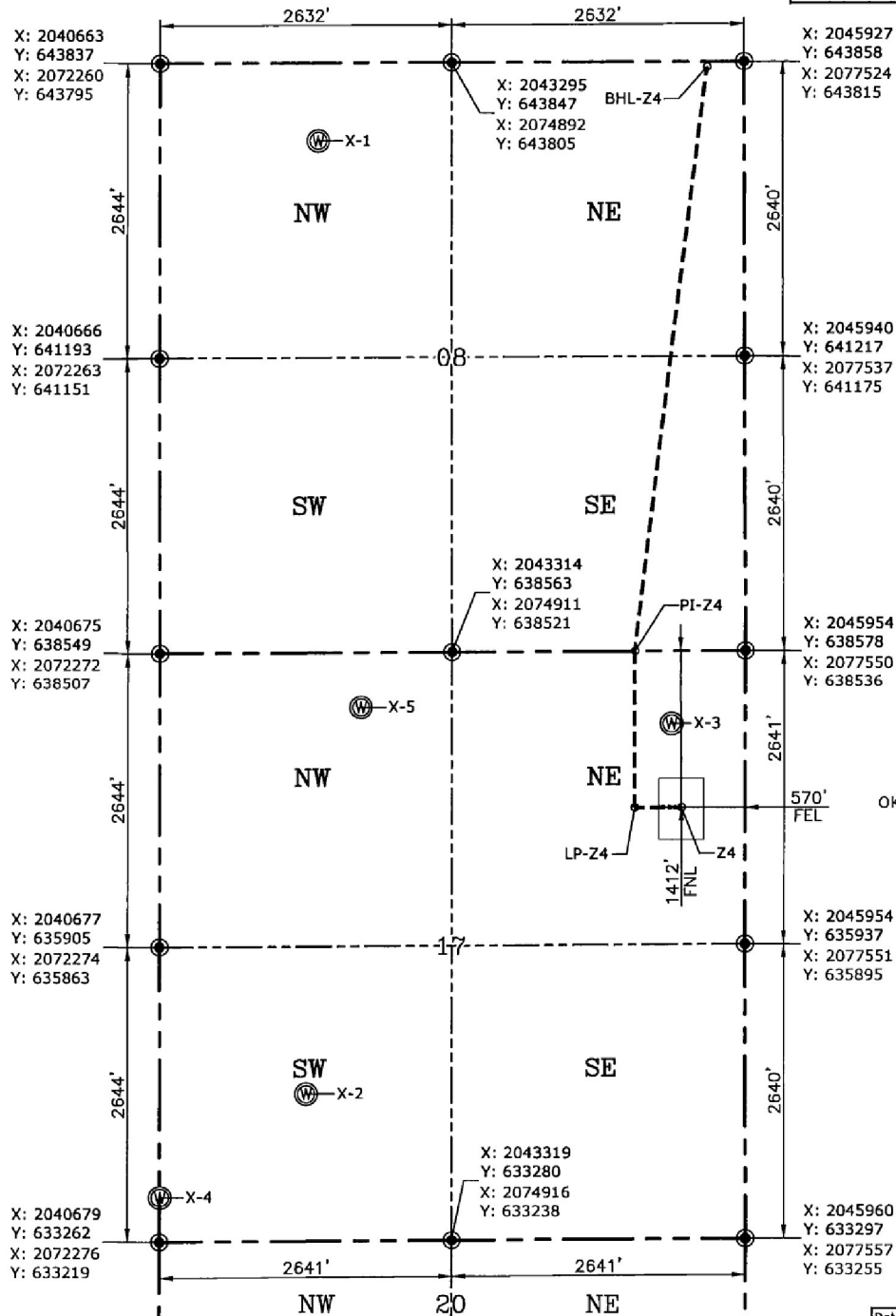
10400 VINEYARD BLVD, SUITE C, OKLA. CITY, OKLA. 73120 * OFFICE (405) 212-3108
Certificate of Authorization No. 7318



CONTINENTAL
RESOURCES, INC.
(OPERATOR)

GRADY County Oklahoma
1412' FNL-570' FEL Section 17 Township 7N Range 5W I.M.

WELL: Z 21 4-17-8XHW



Please note that this location was staked on the ground under the supervision of a Licensed Professional Land Surveyor, but the accuracy of this survey is not guaranteed. Please contact PLS promptly if any inconsistency is determined. GPS data is observed from RTK-GPS. NOTE: X and Y data shown hereon for Section Corners may NOT have been surveyed on-the-ground, and further, does NOT represent a true Boundary Survey. Quarter Section distances may be assumed from a Government Survey Plat or assumed at a proportionate distance from opposing section corners, or occupation thereof, and may not have been measured on-the-ground, and further, does not represent a true Boundary Survey.

CERTIFICATE:

I, **TYLER J. WILLIS** an Oklahoma Licensed Land Surveyor and an authorized agent of Petro Land Services South, LLC, do hereby certify to the information shown herein.



Oklahoma PLS No.1985 DATE