

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

API NUMBER: 051 24716

Approval Date: 09/16/2019

Expiration Date: 03/16/2021

Horizontal Hole
Oil & Gas
Multi Unit

PERMIT TO DRILL

WELL LOCATION: Sec: 17 Twp: 7N Rge: 5W County: GRADY
SPOT LOCATION: ☐ SE ☐ SW ☐ SE ☐ SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 173 1770

Lease Name: Z 21 Well No: 3-17-8XHW Well will be 173 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

Z22, LLC
3812 NW 6TH ST
NEWCASTLE OK 73065

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	11533	6	
2	WOODFORD	11799	7	
3	HUNTON	11915	8	
4			9	
5			10	

Spacing Orders: 632237
180987
643068

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201903764
201903765
201903760
201903761

Special Orders:

Total Depth: 21931 Ground Elevation: 1260

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 210

Deep surface casing has been approved

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 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: 19-36920

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: NW NW NW NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 2625

Depth of Deviation: 11322

Radius of Turn: 483

Direction: 12

Total Length: 9850

Measured Total Depth: 21931

True Vertical Depth: 11915

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

Notes:

Category

Description

DEEP SURFACE CASING

8/26/2019 - GC3 - 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

8/26/2019 - GC3 - 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

MEMO

8/26/2019 - GC3 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201903760

9/10/2019 - GC2 - 17-7N-5W
X632237 WDFD
7 WELLS
CONTINENTAL RESOURCES, INC
REC. 8-6-2019 (NORRIS)

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 24716 Z 21 3-17-8XHW

PENDING CD - 201903761	9/10/2019 - GC2 - 8-7N-5W X643068 WDFD 3 WELLS CONTINENTAL RESOURCES, INC REC. 8-6-2019 (NORRIS)
PENDING CD - 201903764	9/10/2019 - GC2 - (I.O.) 17 & 8-7N-5W EST MULTIUNIT HORIZONTAL WELL X632237 WDFD, HNTN, MSSP 17-7N-5W X643068 WDFD, MSSP 8-7N-5W X180987 HNTN 8-7N-5W (MSSP & HNTN ASSOCIATED COMMON SOURCE OF SUPPLY TO WDFD) 50% 17-7N-5W 50% 8-7N-5W CONTINENTAL RESOURCES, INC REC 8-6-2019 (NORRIS)
PENDING CD - 201903765	9/10/2019 - GC2 - (I.O.) 17 & 8-7N-5W X632237 WDFD, MSSP, HNTN 17-7N-5W X180987 HNTN 8-7N-5W X643068 WDFD, MSSP 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 150' FSL, NCT 0' FNL, NCT 1,320' FWL COMPL. INT. (8-7N-5W) NCT 0' FSL, NCT 150' FNL, NCT 1,320' FWL CONTINENTAL RESOURCES, INC. REC. 8-6-2019 (NORRIS)
SPACING - 180987	9/10/2019 - GC2 - (640) 8-7N-5W EXT 163257 MSSLM, HNTN, OTHERS (VAC MSSLM BY 643068)
SPACING - 632237	9/10/2019 - GC2 - (640) 17-7N-5W VAC 94214/VAR/185876 MSSLM, OTHERS EXT (VERT) 171224/202656/621966 MSSP, HNTN, OTHERS EST (VERT) OTHERS EST (HOR) WDFD, OTHER COMPL. INT. (WDFD) NCT 330' FB
SPACING - 643068	9/10/2019 - GC2 - (640)(HOR) 8-7N-5W VAC 180987 MSSLM EXT 632237 WDFD EST MSSP, OTHERS COMPL. INT. (MSSP) NCT 660' FB COMPL. INT. (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL

EXHIBIT: A (1 of 2)
 SHEET: 8.5x11
 SHL: 17-7N-5W
 BHL-3 8-7N-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 21-3-17-8XHW
 County GRADY State OK Well: --
 Operator CONTINENTAL RESOURCES, INC.

NAD-83

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W3	Z 21-3-17-8XHW	633447	2042449	35° 04' 25.20" -97° 45' 10.31"	35.073666 -97.752865	173' FSL / 1770' FWL (SW/4 SEC 17)	1260.17'	1259.62'
LP-3	LANDING POINT	633453	2043319	35° 04' 25.23" -97° 44' 59.85"	35.073675 -97.749958	173' FSL / 2640' FWL (SW/4 SEC 17)	--	--
BHL-3	BOTTOM HOLE LOCATION	643797	2043303	35° 06' 07.54" -97° 44' 59.73"	35.102095 -97.749925	50' FNL / 2625' FEL (NE/4 SEC 8)	--	--
X-1	YATES #1-8	643142	2042089	35° 06' 01.10" -97° 44' 35.94"	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	--	--

NAD-27

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W3	Z 21-3-17-8XHW	633405	2074046	35° 04' 24.96" -97° 45' 09.17"	35.073599 -97.752547	173' FSL / 1770' FWL (SW/4 SEC 17)	1260.17'	1259.62'
LP-3	LANDING POINT	633411	2074915	35° 04' 24.99" -97° 44' 58.70"	35.073609 -97.749640	173' FSL / 2640' FWL (SW/4 SEC 17)	--	--
BHL-3	BOTTOM HOLE LOCATION	643755	2074900	35° 06' 07.30" -97° 44' 58.58"	35.102029 -97.749607	50' FNL / 2625' FEL (NE/4 SEC 8)	--	--
X-1	YATES #1-8	643100	2073686	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	--	--

Certificate of Authorization No. 7318

Date Staked: **--**--19
 Date Drawn: 7-12-19



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

REVISIONS

No.	DATE	BY	DESCRIPTION	COMMENTS
00	7-12-19	HOG	ISSUED FOR APPROVAL	--

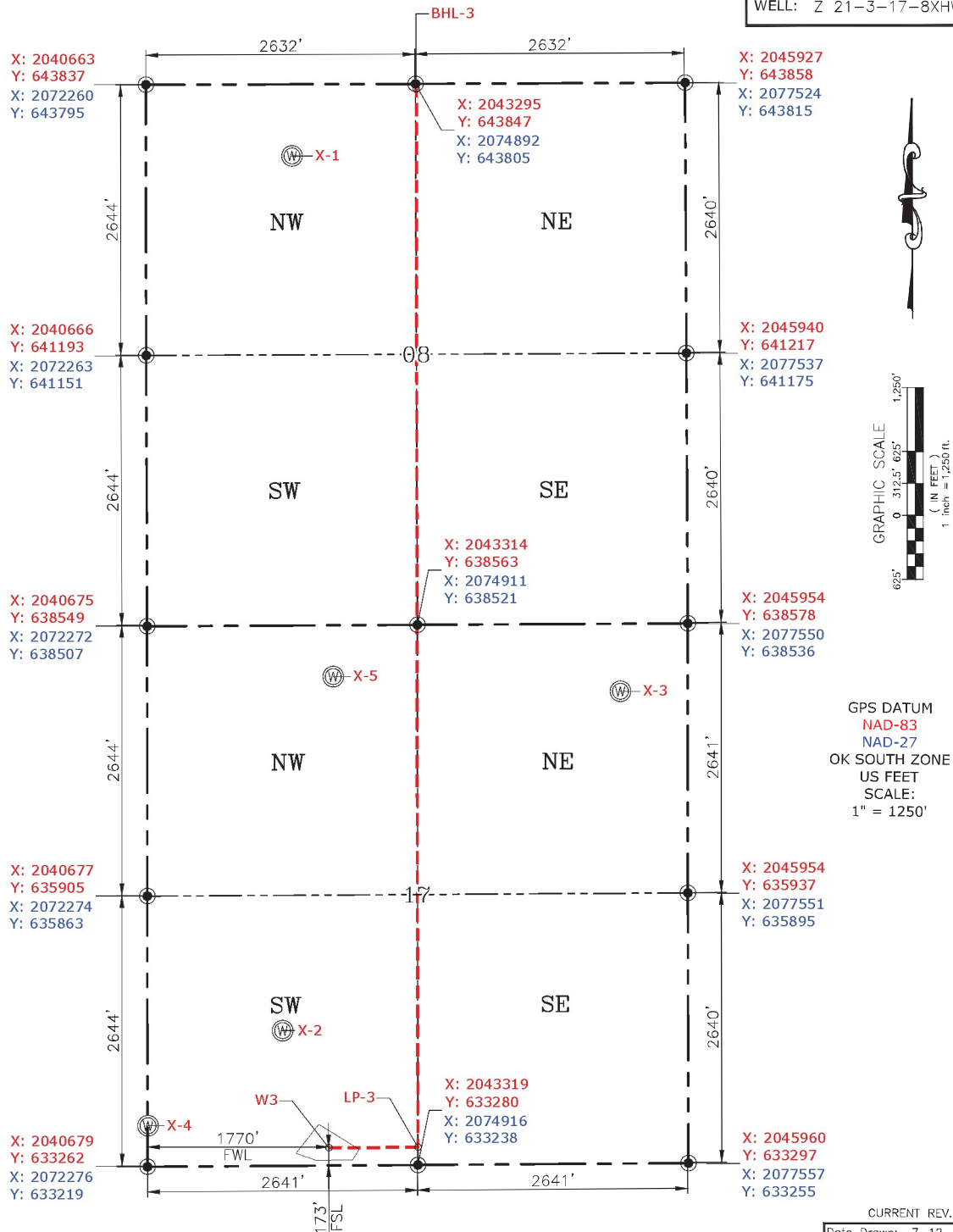
EXHIBIT: A (2 of 2)SHEET: 8.5x14SHL: 17-7N-5WBHL-3 8-7N-5W**PETRO LAND SERVICES SOUTH, LLC**10400 VINEYARD BLVD. SUITE C, OKLA. CITY, OKLA. 73120 * OFFICE (405) 212-3108
Certificate of Authorization No. 7318

GRADY

County Oklahoma

173' FSL-1770' FWL Section 17 Township 7N Range 5W I.M.CONTINENTAL
RESOURCES, INC.
(OPERATOR)

WELL: Z 21-3-17-8XHW



CURRENT REV.: 0

Date Drawn: 7-12-19

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

*Randall J. Bilyeu*

Oklahoma PLS No.1196 DATE