API NUMBER: 051 24568

Horizontal Hole Oil & Gas
Multi Unit

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

Approval Date: 02/04/2019
Expiration Date: 08/04/2020

PERMIT TO DRILL

WELL LOCATION: Sec: 31 Twp: 7N Rge: 6W County: GRADY

SPOT LOCATION: NE NE SE NE FEET FROM QUARTER: FROM **NORTH** FROM **EAST**
SECTION LINES: **1627** **319**

Lease Name: PHELPS **Well No: 3-31-30-19XHS** **Well will be 319 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

KATHERINE ALICE ROBERTS
816 SEATTLE SLEW COURT
EDMOND OK 73025

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

	Name	Depth		Name	Depth
1	SPRINGER	12838	6		
2			7		
3			8		
4			9		
5			10		

Spacing Orders: 107496
123130

Location Exception Orders:

Increased Density Orders: 690417
690419
690418

Pending CD Numbers: 201810625
201810626

Special Orders:

Total Depth: 25252 Ground Elevation: 1071 **Surface Casing: 840** Depth to base of Treatable Water-Bearing FM: 590

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: Yes

PIT 1 INFORMATION

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? Y
Wellhead Protection Area? Y
Pit **is** located in a Hydrologically Sensitive Area.
Category of Pit: C
Liner not required for Category: C
Pit Location is ALLUVIAL
Pit Location Formation: ALLUVIUM

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-35872
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: 200000

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? Y

Wellhead Protection Area? Y

Pit **is** located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is ALLUVIAL

Pit Location Formation: ALLUVIUM

HORIZONTAL HOLE 1

Sec 19 Twp 7N Rge 6W County GRADY

Spot Location of End Point: NW NW NE NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 1220

Depth of Deviation: 12475

Radius of Turn: 409

Direction: 350

Total Length: 12135

Measured Total Depth: 25252

True Vertical Depth: 12838

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

Notes:

Category	Description
HYDRAULIC FRACTURING	1/25/2019 - 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 - 690417	1/31/2019 - GA8 - 31-7N-6W X123130 SPRG 5 WELLS CONTINENTAL RESOURCES INC. 1/25/2019
INCREASED DENSITY - 690418	1/31/2019 - GA8 - 19-7N-6W X107496 SPRG 2 WELLS CONTINENTAL RESOURCES INC. 1/25/2019
INCREASED DENSITY - 690419	1/31/2019 - GA8 - 30-7N-6W X107496 SPRG 2 WELLS CONTINENTAL RESOURCES INC. 1/25/2019

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.

Category	Description
MEMO	1/25/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 201810625	1/31/2019 - GA8 - (I.O.) 31, 30 & 19-7N-6W EST MULTIUNIT HORIZONTAL WELL X123130 SPRG 31-7N-6W X107496 SPRG 30 & 19-7N-6W 13.52% 31-7N-6W 43.86% 30-7N-6W 42.62% 19-7N-6W CONTINENTAL RESOURCES, INC. REC 1/8/2019 (M. PORTER)
PENDING CD - 201810626	1/31/2019 - GA8 - (I.O.) 31, 30 & 19-7N-6W X123130 SPRG 31-7N-6W X107496 SPRG 19 & 30-7N-6W X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO KATHRYN 4-31-6XHS SHL (31-7N-6W) SE4 NE4 COMPL. INT. (31-7N-6W) NCT 1320' FSL, NCT 0'FNL, NCT 660' FEL COMPL. INT. (30-7N-6W) NCT 0' FSL, NCT 0' FNL, NCT 660' FEL COMPL. INT. (19-7N-6W) NCT 0' FSL, NCT 150' FNL, NCT 660'FEL CONTINENTAL RESOURCES, INC. REC 1/8/2019 (M.PORTER)
PUBLIC WATER SUPPLY WELLS	1/25/2019 - G71 - SKYVIEW TP - 2 PWS/WPA, NW/4 31-7N-6W
SPACING - 107496	1/31/2019 - GA8 - (640) 30 & 19-7N-6W EXT OTHER EXT 75509 SPRG, OTHERS
SPACING - 123130	1/31/2019 - GA8 - (640) 31-7N-6W EXT 116468/118211 SPRG, OTHERS

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.

EXHIBIT: A (1 of 3)
SHEET: 8.5x14
SHL: 31–7N–6W
BHL-3 19–7N–6W
BHL-4 6–6N–6W

Continental RESOURCES

COVER SHEET

CONTINENTAL RESOURCES, INC.

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

Section 31 Township 7N Range 6W I.M. Well: PHELPS 3–31–30–19XHS 35-051-24568

County GRADY State OK Well: KATHRYN 4–31–6XHS

Operator CONTINENTAL RESOURCES, INC.

NAD–83

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W3	PHELPS 3–31–30–19XHS	620981	2008744	35° 02' 22.52" -97° 51' 56.01"	35.039590 -97.865559	1627' FNL / 319' FEL (NE/4 SEC 31)	1069.36'	1071.21'
LP–3	LANDING POINT	620979	2007843	35° 02' 22.51" -97° 52' 06.85"	35.039587 -97.868569	1627' FNL / 1220' FEL (NE/4 SEC 31)	--	--
BHL–3	BOTTOM HOLE LOCATION	633114	2007847	35° 04' 22.55" -97° 52' 06.61"	35.072930 -97.868504	50' FNL / 1220' FEL (NE/4 SEC 19)	--	--
W4	KATHRYN 4–31–6XHS	620951	2008744	35° 02' 22.23" -97° 51' 56.01"	35.039508 -97.865559	1657' FNL / 319' FEL (NE/4 SEC 31)	1069.30'	1071.21'
LP–4	LANDING POINT	620950	2008183	35° 02' 22.22" -97° 52' 02.76"	35.039506 -97.867434	1657' FNL / 880' FEL (NE/4 SEC 31)	--	--
BHL–4	BOTTOM HOLE LOCATION	612067	2008196	35° 00' 54.36" -97° 52' 02.75"	35.015101 -97.867431	50' FSL / 880' FEL (SE/4 SEC 6)	--	--
X–1	C.W. CHAPMAN #1	629205	2005464	35° 03' 43.91" -97° 52' 35.34"	35.062198 -97.876483	19–7N–6W:SW4 | TD: 13,000' | 1,320' FSL / 1,620' FWL	--	--
X–2	BUSER #1–19	631694	2005514	35° 04' 08.53" -97° 52' 34.70"	35.069036 -97.876306	19–7N–6W:NE4NW4SE4NW4 | TD: 8,100' | 1,170' FSL OF ¼ SEC. / 1,670' FWL	--	--
X–3	J.M. BEAUCHAMP #1	620293	2006754	35° 02' 15.74" -97° 52' 19.96"	35.037707 -97.872212	31–7N–6W:SW4SW4NE4 | TD: 3,345' | 330' FSL OF ¼ SEC. / 330' FWL OF ¼ SEC.	--	--
X–4	MOORE "A" #1	618888	2005172	35° 02' 01.87" -97° 52' 39.01"	35.033853 -97.877502	31–7N–6W:S2N2SW4 | TD: 13,260' | 1,570' FSL / 1,320' FWL	--	--
X–5	VOGEL #1	617977	2004514	35° 01' 52.86" -97° 52' 46.94"	35.031350 -97.879705	31–7N–6W:SW4SW4 | TD: 12,815' | 660' FSL / 660' FWL	--	--
X–6	KATHRYN #1–31–30XH	617508	2008544	35° 01' 48.18" -97° 51' 58.47"	35.030049 -97.866243	31–7N–6W:SW4SE4SE4SE4 | TD: 24,467' | 180' FSL / 530' FEL	--	--
X–7	MISER #1–6	613190	2005142	35° 01' 05.51" -97° 52' 39.45"	35.018197 -97.877625	6–6N–6W:SW4 | TD: 13,450' | 1,170' FSL / 1,290' FWL	--	--
X–8	LOWE #1–6	613011	2004512	35° 01' 03.74" -97° 52' 47.03"	35.017707 -97.879731	6–6N–6W:SW4 | TD: 8,500' | 990' FSL / 660' FWL	--	--
X–9	LOWE #2–6	612516	2004346	35° 00' 58.85" -97° 52' 49.03"	35.016348 -97.880285	6–6N–6W:NE4SW4SW4SW4 | TD: 13,600' | 495' FSL / 495' FWL	--	--

NAD–27

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W3	PHELPS 3–31–30–19XHS	620939	2040341	35° 02' 22.29" -97° 51' 54.86"	35.039524 -97.865240	1627' FNL / 319' FEL (NE/4 SEC 31)	1069.36'	1071.21'
LP–3	LANDING POINT	620937	2039440	35° 02' 22.28" -97° 52' 05.70"	35.039521 -97.868249	1627' FNL / 1220' FEL (NE/4 SEC 31)	--	--
BHL–3	BOTTOM HOLE LOCATION	633073	2039444	35° 04' 22.31" -97° 52' 05.46"	35.072864 -97.868183	50' FNL / 1220' FEL (NE/4 SEC 19)	--	--
W4	KATHRYN 4–31–6XHS	620909	2040341	35° 02' 21.99" -97° 51' 54.86"	35.039442 -97.865240	1657' FNL / 319' FEL (NE/4 SEC 31)	1069.30'	1071.21'
LP–4	LANDING POINT	620908	2039780	35° 02' 21.98" -97° 52' 01.61"	35.039440 -97.867114	1657' FNL / 880' FEL (NE/4 SEC 31)	--	--
BHL–4	BOTTOM HOLE LOCATION	612025	2039793	35° 00' 54.12" -97° 52' 01.60"	35.015034 -97.867111	50' FSL / 880' FEL (SE/4 SEC 6)	--	--
X–1	C.W. CHAPMAN #1	629164	2037061	35° 03' 43.68" -97° 52' 34.19"	35.062132 -97.876163	19–7N–6W:SW4 | TD: 13,000' | 1,320' FSL / 1,620' FWL	--	--
X–2	BUSER #1–19	631652	2037111	35° 04' 08.29" -97° 52' 33.55"	35.068971 -97.875986	19–7N–6W:NE4NW4SE4NW4 | TD: 8,100' | 1,170' FSL OF ¼ SEC. / 1,670' FWL	--	--
X–3	J.M. BEAUCHAMP #1	620251	2038351	35° 02' 15.51" -97° 52' 18.81"	35.037641 -97.871892	31–7N–6W:SW4SW4NE4 | TD: 3,345' | 330' FSL OF ¼ SEC. / 330' FWL OF ¼ SEC.	--	--
X–4	MOORE "A" #1	618847	2036769	35° 02' 01.63" -97° 52' 37.86"	35.033787 -97.877182	31–7N–6W:S2N2SW4 | TD: 13,260' | 1,570' FSL / 1,320' FWL	--	--
X–5	VOGEL #1	617935	2036110	35° 01' 52.62" -97° 52' 45.79"	35.031284 -97.879385	31–7N–6W:SW4SW4 | TD: 12,815' | 660' FSL / 660' FWL	--	--
X–6	KATHRYN #1–31–30XH	617466	2040141	35° 01' 47.94" -97° 51' 57.32"	35.029983 -97.865923	31–7N–6W:SW4SE4SE4SE4 | TD: 24,467' | 180' FSL / 530' FEL	--	--
X–7	MISER #1–6	613149	2036739	35° 01' 05.27" -97° 52' 38.30"	35.018131 -97.877306	6–6N–6W:SW4 | TD: 13,450' | 1,170' FSL / 1,290' FWL	--	--
X–8	LOWE #1–6	612969	2036108	35° 01' 03.51" -97° 52' 45.88"	35.017641 -97.879411	6–6N–6W:SW4 | TD: 8,500' | 990' FSL / 660' FWL	--	--
X–9	LOWE #2–6	612475	2035943	35° 00' 58.61" -97° 52' 47.87"	35.016282 -97.879965	6–6N–6W:NE4SW4SW4SW4 | TD: 13,600' | 495' FSL / 495' FWL	--	--

Certificate of Authorization No. 7318

Date Staked: 10–26–18
Date Drawn: 10–23–18

PLS

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

REVISIONS

No.	DATE	BY	DESCRIPTION	COMMENTS
00	10–23–18	HDG	ISSUED FOR APPROVAL	--
01	10–31–18	HDG	REV'D GRADING TO REFLECT 10,000 YDS. FILL, CHANGED WELL NAME	REVISED ALL EXHIBITS
02	11–7–18	HDG	REV'D LAND OWNER	REV'D EXHIBITS F & G
03	1–23–19	HDG	REV'D PHELPS 3 BHL	REV'D EXHIBITS A(1 & 2)

EXHIBIT: A (2 of 3)
SHEET: 8.5x14
SHL: 31–7N–6W
BHL-3 19–7N–6W

PETRO LAND SERVICES SOUTH, LLC

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

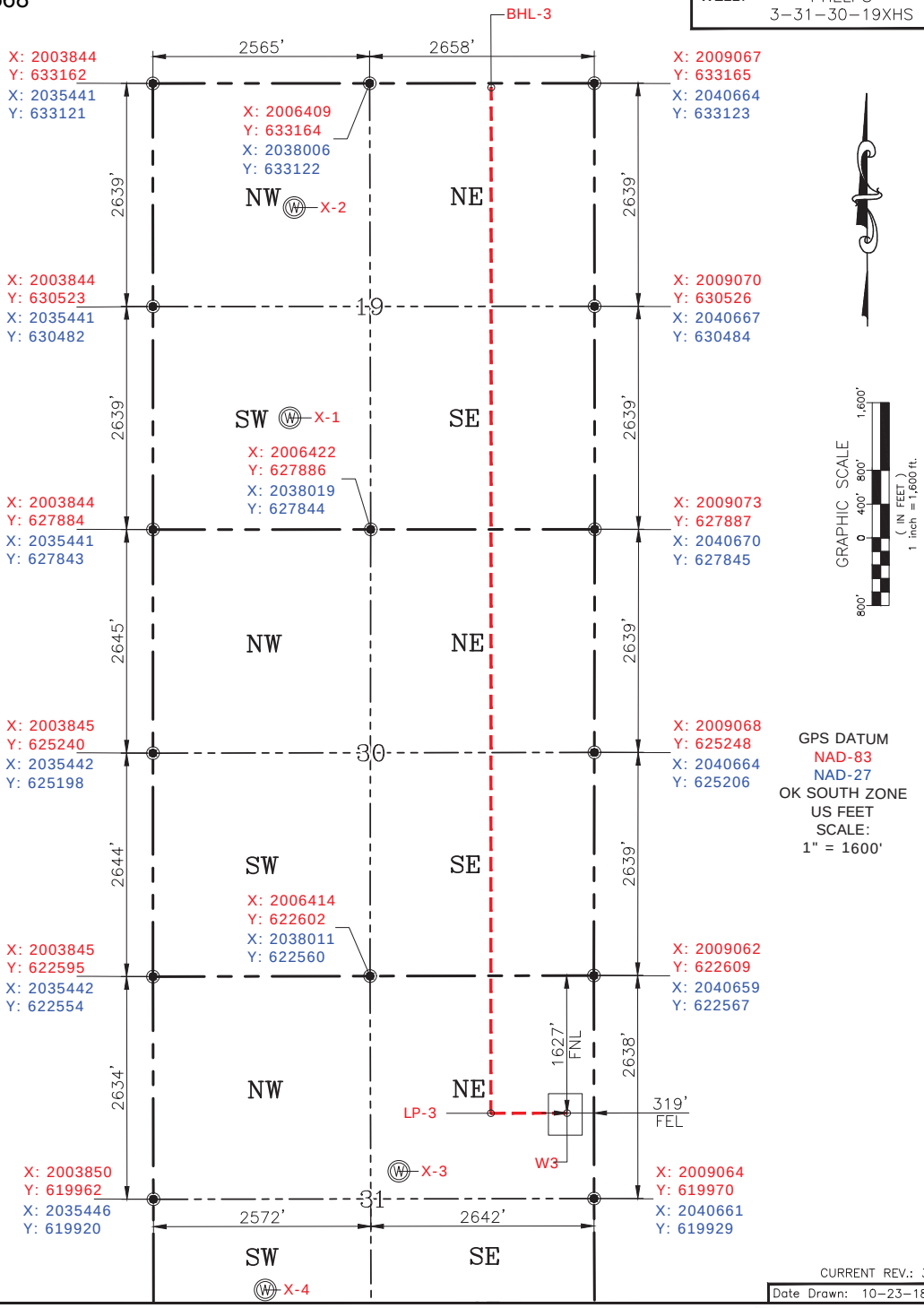
GRADY County Oklahoma
1627' FNL–319' FEL Section 31 Township 7N Range 6W I.M.

Continental RESOURCES

CONTINENTAL RESOURCES, INC (OPERATOR)

35-051-24568

WELL: PHELPS 3–31–30–19XHS



GPS DATUM
NAD-83
NAD-27
OK SOUTH ZONE
US FEET
SCALE:
1" = 1600'

CURRENT REV.: 3
Date Drawn: 10–23–18

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.

REGISTERED PROFESSIONAL LAND SURVEYOR OKLAHOMA
RANDALL J. BILYEU
1196
1-24-19

Randall J. Bilyeu

Oklahoma PLS No.1196 DATE