

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

API NUMBER: 051 24579

Approval Date: 02/25/2019

Expiration Date: 08/25/2020

Horizontal Hole  
Multi Unit  
Oil & Gas

PERMIT TO DRILL

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

County: GRADY

SPOT LOCATION: ☐ SE ☐ NW ☐ SW ☐ NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 1703 2231

Lease Name: KATHRYN

Well No: 3-31-6XHS

Well will be 1703 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

DESERT ROSE FAMILY, LLC  
2349 COUNTY ST 2872  
CHICKASHA OK 73018

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

	Name	Depth	Name	Depth
1	SPRINGER	12964	6	
2	GODDARD	13274	7	
3			8	
4			9	
5			10	

Spacing Orders: 123130

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201810598  
201810599  
201810602  
201810603  
201810595

Special Orders:

Total Depth: 21966

Ground Elevation: 1104

Surface Casing: 830

Depth to base of Treatable Water-Bearing FM: 580

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? 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

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

PERMIT NO: 18-35875

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 06 Twp 6N Rge 6W County GRADY

Spot Location of End Point: S2 S2 S2 S2

Feet From: SOUTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 2640

Depth of Deviation: 12654

Radius of Turn: 573

Direction: 183

Total Length: 8412

Measured Total Depth: 21966

True Vertical Depth: 13628

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

Notes:

Category

Description

HYDRAULIC FRACTURING

2/4/2019 - 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](http://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](http://FRACFOCUS.ORG)

MEMO

2/4/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201810595

2/25/2019 - GA8 - (640)(HOR) 6-6N-6W  
EST GDRD  
COMPL. INT. NCT 660' FB  
(COEXIST SP. ORDER # 116468 SPRG)  
REC 1/7/2019 (NORRIS)

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.

051 24579 KATHRYN 3-31-6XHS

Category	Description
PENDING CD - 201810598	2/25/2019 - GA8 - (I.O.) 31-7N-6W & 6-6N-6W EST MULTIUNIT HORIZONTAL WELL X123130 SPRG 31-7N-6W X201810595 GDRD 6-6N-6W 41% 31-7N-6W 59% 6-6N-6W CONTINENTAL RESOURCES, INC. REC 1/7/2019 (NORRIS)
PENDING CD - 201810599	2/25/2019 - GA8 - (I.O.) 31-7N-6W & 6-6N-6W X123130 SPRG 31-7N-6W X201810595 GDRD 6-6N-6W X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO PHELPS 2-31-30-19SXH ** SHL (31-7N-6W) SW4 NE4 COMPL. INT. (31-7N-6W) NCT 330' FNL, NCT 0' FSL, NCT 1320' FWL COMPL. INT. (6-6N-6W) NCT 0' FNL, NCT 150' FSL, NCT 1320' FWL CONTINENTAL RESOURCES, INC. REC 1/7/2019 (NORRIS)  ** S/B: PHELPS 2-31-30-19XHS; TO BE CORRECTED AT HEARING FOR FINAL ORDER PER OPERATOR
PENDING CD - 201810602	2/25/2019 - GA8 - 31-7N-6W X123130 SPRG 5 WELLS CONTINENTAL RESOURCES, INC REC 1/8/2019 (NORRIS)
PENDING CD - 201810603	2/25/2019 - GA8 - 6-6N-6W X201810595 GDRD 2 WELLS CONTINENTAL RESOURCES INC. REC 1/7/2019 (NORRIS)
PUBLIC WATER SUPPLY WELLS	2/4/2019 - G71 - SKYVIEW TP - 2 PWS/WPA, NW/4 31-7N-6W
SPACING - 123130	2/25/2019 - GA8 - (640) 31-7N-6W EXT 116468/118211 SPRG, OTHERS

EXHIBIT: A (1 of 3)  
SHEET: 8.5x14  
SHL: 31-7N-6W  
BHL-2 19-7N-6W  
BHL-3 6-6N-6W



## 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 2-31-30-19XHS

County GRADY State OK

Well: KATHRYN 3-31-6XHS **35-051-24579**

Operator CONTINENTAL RESOURCES, INC.

NAD-83							EXISTING ELEVATION	DESIGN ELEVATION
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE			
W2	PHELPS 2-31-30-19XHS	620930	2006833	35° 02' 22.05" -97° 52' 19.00"	35.039458 -97.871946	1673' FNL / 2231' FEL (NE/4 SEC 31)	1106.99'	1104.41
LP-2	LANDING POINT	620928	2006218	35° 02' 22.04" -97° 52' 26.40"	35.039455 -97.873999	1673' FNL / 2370' FWL (NW/4 SEC 31)	--	--
BHL-2	BOTTOM HOLE LOCATION	633114	2006214	35° 04' 22.56" -97° 52' 26.26"	35.072933 -97.873961	50' FNL / 2370' FWL (NW/4 SEC 19)	--	--
W3	KATHRYN 3-31-6XHS	620900	2006833	35° 02' 21.75" -97° 52' 19.00"	35.039375 -97.871946	1703' FNL / 2231' FEL (NE/4 SEC 31)	1105.92'	1104.41
LP-3	LANDING POINT	620899	2006423	35° 02' 21.74" -97° 52' 23.93"	35.039373 -97.873313	1703' FNL / 2640' FEL (NE/4 SEC 31)	--	--
BHL-3	BOTTOM HOLE LOCATION	612069	2006436	35° 00' 54.40" -97° 52' 23.91"	35.015112 -97.873308	50' FSL / 2640' 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 1/2 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 1/2 SEC. / 330' FWL OF 1/2 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 #1-31-30XHS	617508	2008544	35° 01' 48.18" -97° 51' 58.47"	35.030049 -97.866243	31-7N-6W:SW4SE4SE4   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							EXISTING ELEVATION	DESIGN ELEVATION
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE			
W2	PHELPS 2-31-30-19XHS	620889	2038429	35° 02' 21.81" -97° 52' 17.85"	35.038392 -97.871626	1673' FNL / 2231' FEL (NE/4 SEC 31)	1106.99'	1104.41
LP-2	LANDING POINT	620887	2037815	35° 02' 21.80" -97° 52' 25.24"	35.039389 -97.873679	1673' FNL / 2370' FWL (NW/4 SEC 31)	--	--
BHL-2	BOTTOM HOLE LOCATION	633072	2037811	35° 04' 22.33" -97° 52' 25.11"	35.072868 -97.873641	50' FNL / 2370' FWL (NW/4 SEC 19)	--	--
W3	KATHRYN 3-31-6XHS	620859	2038429	35° 02' 21.51" -97° 52' 17.85"	35.038309 -97.871626	1703' FNL / 2231' FEL (NE/4 SEC 31)	1105.92'	1104.41
LP-3	LANDING POINT	620857	2038020	35° 02' 21.51" -97° 52' 22.78"	35.039307 -97.872993	1703' FNL / 2640' FEL (NE/4 SEC 31)	--	--
BHL-3	BOTTOM HOLE LOCATION	612027	2038033	35° 00' 54.16" -97° 52' 22.76"	35.015046 -97.872989	50' FSL / 2640' 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 1/2 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 1/2 SEC. / 330' FWL OF 1/2 SEC.	--	--
X-4	MOORE "A" #1	618352	2036769	35° 01' 56.74" -97° 52' 37.85"	35.032428 -97.877181	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 #1-31-30XHS	617466	2040141	35° 01' 47.94" -97° 51' 57.32"	35.029983 -97.865923	31-7N-6W:SW4SE4SE4   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



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	HOG	ISSUED FOR APPROVAL	P&A WELL BORE IN ADJACENT VICINITY "X-3"
01	10-31-18	HOG	REV'D GRADING TO REFLECT 10,000 YDS. CUT, CHANGED WELL NAME	REVISED ALL EXHIBITS
02	11-7-18	HOG	REV'D LAND OWNER/UPDATED ACCESS FOOTAGES	REV'D EXHIBITS F & G
03	1-23-19	HOG	REV'D PHELPS 2 BHL	REV'D EXHIBITS A(1 & 2)

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

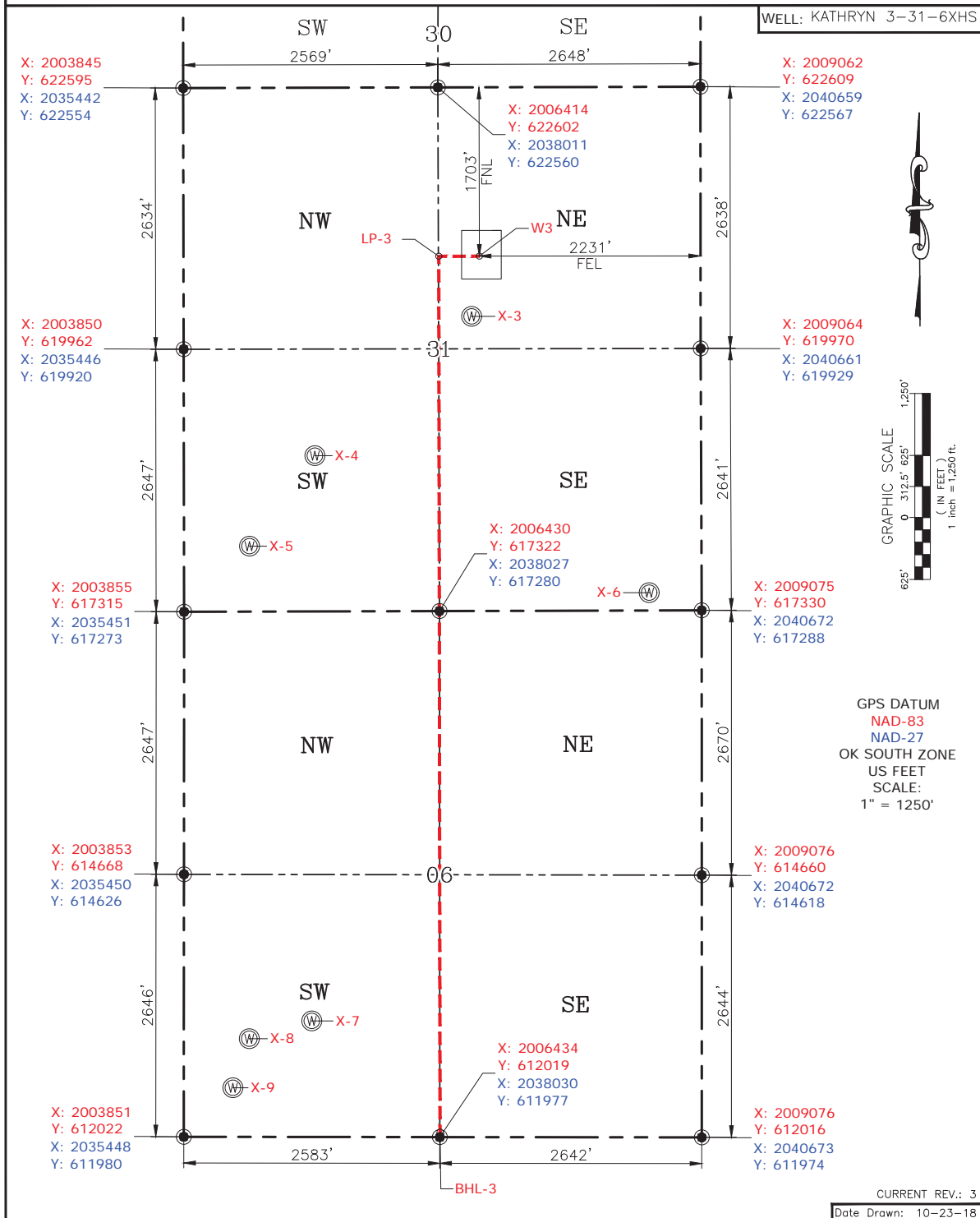
**PETRO LAND SERVICES SOUTH, LLC**

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



CONTINENTAL  
RESOURCES, INC.  
(OPERATOR)

35-051-24579



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