

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

API NUMBER: 051 24551

Approval Date: 01/17/2019

Expiration Date: 07/17/2020

Horizontal Hole
Multi Unit
Oil & Gas

PERMIT TO DRILL

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

County: GRADY

SPOT LOCATION: ☐ NE ☐ SE ☐ NW ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 1653 1000

Lease Name: PHELPS

Well No: 1-31-30-19XHS

Well will be 1000 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 268870
OKLAHOMA CITY, OK 73126-9000

DESERT ROSE FAMILY, LLC
2439 COUNTY STREET 2872
CHICKASHA OK 73018

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

Name	Depth	Name	Depth
1 SPRINGER	13089	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 123130
107496

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201810621
201810622

Special Orders:

Total Depth: 28142

Ground Elevation: 1104

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 570

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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is AP/TE DEPOSIT

Pit Location Formation: TERRACE

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

PERMIT NO: 18-36044

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? 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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 19 Twp 7N Rge 6W County GRADY

Spot Location of End Point: NW NE NW NW

Feet From: NORTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 880

Depth of Deviation: 13070

Radius of Turn: 409

Direction: 14

Total Length: 14429

Measured Total Depth: 28142

True Vertical Depth: 13089

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

Notes:

Category

Description

DEEP SURFACE CASING

12/30/2018 - 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

12/30/2018 - 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

MEMO

12/30/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED 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.

051 24551 PHELPS 1-31-30-19XHS

Category	Description
PENDING CD - 201810621	1/15/2019 - GA8 - (I.O.) 31, 30 & 19-7N-6W EST MULTIUNIT HORIZONTAL WELL X123130 SPRG 31-7N-6W X107496 SPRG 30 & 19-7N-6W 25.85% 31-7N-6W 37.61% 30-7N-6W 36.54% 19-7N-6W CONTINENTAL RESOURCES, INC. REC 1/8/2019 (M. PORTER)
PENDING CD - 201810622	1/15/2019 - 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 2-31-6XHS SHL (31-7N-6W) NW4 SW4 COMPL. INT. (31-7N-6W) NCT 330' FSL, NCT 0'FNL, NCT 660' FWL COMPL. INT. (30-7N-6W) NCT 0' FSL, NCT 0' FNL, NCT 660' FWL COMPL. INT. (19-7N-6W) NCT 0' FSL, NCT 150' FNL, NCT 660'FWL CONTINENTAL RESOURCES, INC. REC 1/8/2019 (M.PORTER)
SPACING - 107496	1/15/2019 - GA8 - (640) 30 & 19-7N-6W EXT OTHER EXT 75509 SPRG, OTHERS
SPACING - 123130	1/15/2019 - GA8 - (640) 31-7N-6W EXT 116468/118211 SPRG, OTHERS

EXHIBIT: A (2 of 4)
 SHEET: 8.5x11
 SHL: 31-7N-6W
 BHL-1 19-7N-6W
 BHL-2 6-6N-6W



COVER SHEET CONTINUED...

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 1-31-30-19XHS **051-24551**

County GRADY State OK

Well: KATHRYN 2-31-6XHS

Operator CONTINENTAL RESOURCES, INC.

NAD-27

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W1	PHELPS 1-31-30-19XHS	618929	2036448	35° 02' 02.45" -97° 52' 41.71"	35.034015 -97.878252	1653' FSL / 1000' FWL (SW/4 SEC 31)	1106.46'	1104.25'
LP-1	LANDING POINT	618928	2036028	35° 02' 02.44" -97° 52' 46.76"	35.034012 -97.879654	1653' FSL / 580' FWL (SW/4 SEC 31)	--	--
BHL-1	BOTTOM HOLE LOCATION	633071	2036021	35° 04' 22.34" -97° 52' 46.64"	35.072872 -97.879623	50' FNL / 580' FWL (NW/4 SEC 19)	--	--
W2	KATHRYN 2-31-6XHS	618929	2036478	35° 02' 02.45" -97° 52' 41.35"	35.034014 -97.878152	1653' FSL / 1030' FWL (SW/4 SEC 31)	1106.09'	1104.25'
LP-2	LANDING POINT	618929	2036328	35° 02' 02.45" -97° 52' 43.15"	35.034014 -97.878652	1653' FSL / 880' FWL (SW/4 SEC 31)	--	--
BHL-2	BOTTOM HOLE LOCATION	612029	2036328	35° 00' 54.20" -97° 52' 43.26"	35.015057 -97.878682	50' FSL / 880' FWL (SW/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 1/4 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 1/4 SEC. / 330' FWL OF 1/4 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: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	--	--

EXHIBIT: A (3 of 4)

SHEET: 8.5x14

SHL: 31-7N-6W

BHL-1 19-7N-6W

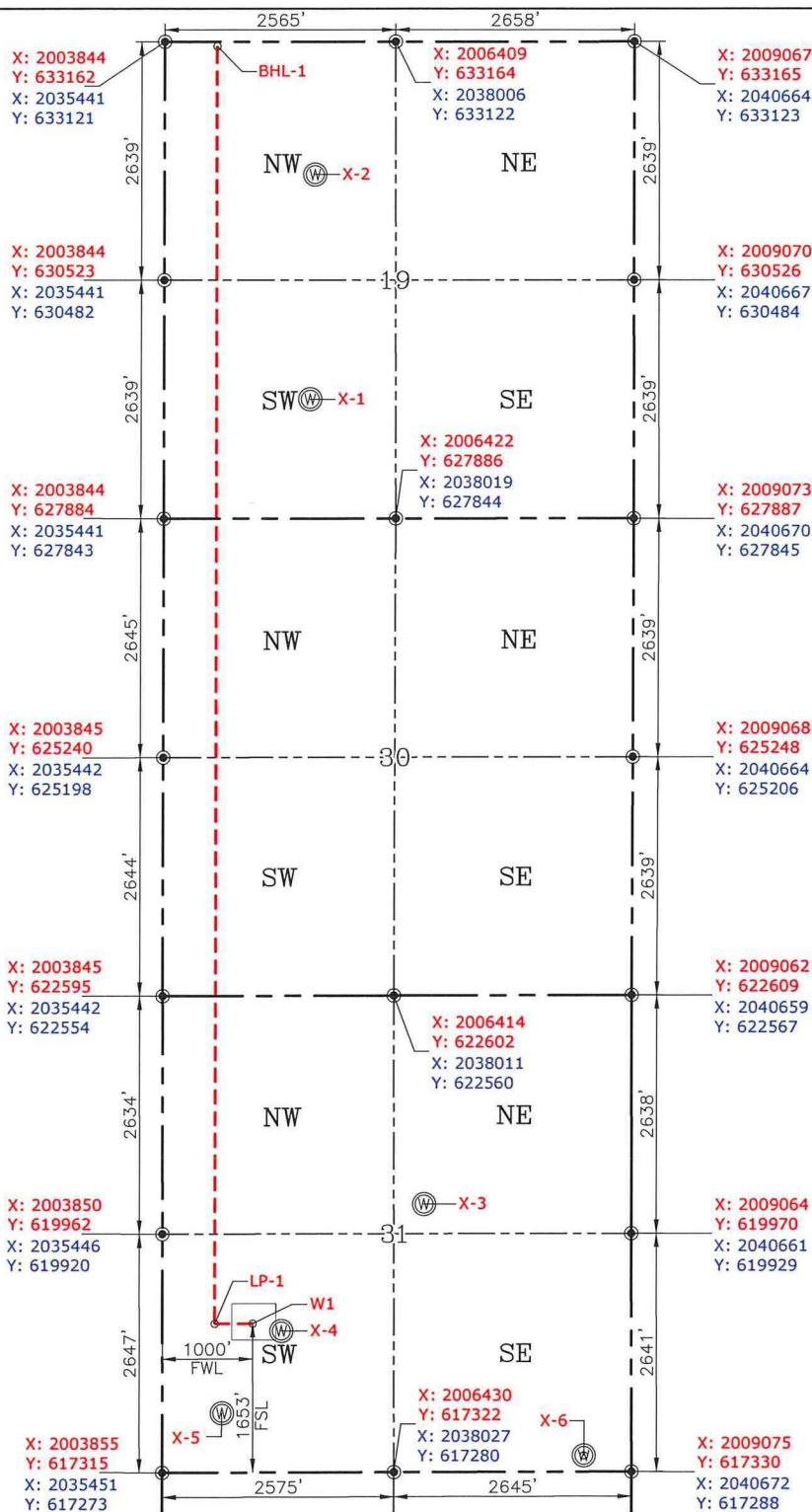
PETRO LAND SERVICES SOUTH, LLC

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

GRADY

County Oklahoma

1653' FSL-1000' FWL Section 31 Township 7N Range 6W I.M.

CONTINENTAL
RESOURCES, INC.
(OPERATOR)WELL: PHELPS
1-31-30-19XHSGPS DATUM
NAD-83
NAD-27
OK SOUTH ZONE
US FEET
SCALE:
1" = 1600'

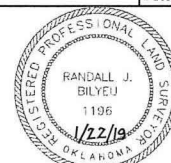
CURRENT REV.: 2

Date Drawn: 12-3-18

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.



Oklahoma PLS No.1196 DATE

EXHIBIT: A (4 of 4)
SHEET: 8.5x14
SHL: 31-7N-6W
BHL-2 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)

GRADY

County Oklahoma

1653' FSL-1030' FWL Section 31 Township 7N Range 6W I.M.

WELL: KATHRYN 2-31-6XHS

051-24552

X: 2003845
Y: 622595
X: 2035442
Y: 622554

X: 2009062
Y: 622609
X: 2040659
Y: 622567

X: 2006414
Y: 622602
X: 2038011
Y: 622560

X: 2003850
Y: 619962
X: 2035446
Y: 619920

X: 2009064
Y: 619970
X: 2040661
Y: 619929

X-3

X: 2003855
Y: 617315
X: 2035451
Y: 617273

X: 2009075
Y: 617330
X: 2040672
Y: 617288

X: 2006430
Y: 617322
X: 2038027
Y: 617280

X-6

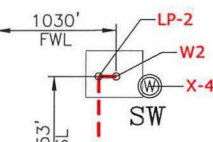
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Y: 614668
X: 2035450
Y: 614626

X: 2009076
Y: 614660
X: 2040672
Y: 614618

X: 2003851
Y: 612022
X: 2035448
Y: 611980

X: 2009076
Y: 612016
X: 2040673
Y: 611974

X: 2006434
Y: 612019
X: 2038030
Y: 611977



GPS DATUM
NAD-83
NAD-27
OK SOUTH ZONE
US FEET
SCALE:
1" = 1250'

CURRENT REV.: 2

Date Drawn: 12-3-18

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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