

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

API NUMBER: 051 24650

Approval Date: 05/31/2019

Expiration Date: 11/30/2020

Horizontal Hole  
Oil & Gas  
Multi Unit

PERMIT TO DRILL

WELL LOCATION: Sec: 20 Twp: 6N Rge: 5W

County: GRADY

SPOT LOCATION: ☐ SE ☐ SW ☐ SW ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 267 598

Lease Name: RK MORRIS

Well No: 2-29-20-17XHW

Well will be 267 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  
GALA ANN HARPER, MANAGING MEMBER  
2439 COUNTY STREET 2872  
CHICKASHA OK 73018

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	12887	6	
2	WOODFORD	13165	7	
3	HUNTON	13267	8	
4			9	
5			10	

Spacing Orders: 629390  
624422  
131103  
153801  
608652

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201902633  
201902634  
201902635  
201902636  
201902637

Special Orders:

Total Depth: 23210

Ground Elevation: 1131

**Surface Casing: 1500**

Depth to base of Treatable Water-Bearing FM: 450

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 19-36578

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 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? 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 BED AQUIFER

Pit Location Formation: DUNCAN

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 BED AQUIFER

Pit Location Formation: DUNCAN

HORIZONTAL HOLE 1

Sec 17 Twp 6N Rge 5W County GRADY

Spot Location of End Point: NE NE NW NW

Feet From: NORTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 1254

Depth of Deviation: 11758

Radius of Turn: 478

Direction: 12

Total Length: 10702

Measured Total Depth: 23210

True Vertical Depth: 13267

End Point Location from Lease,

Unit, or Property Line: 50

Notes:

Category

Description

DEEP SURFACE CASING

5/13/2019 - 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

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 24650 RK MORRIS 2-29-20-17XHW

Category	Description
HYDRAULIC FRACTURING	<p>5/13/2019 - G71 - OCC 165:10-3-10 REQUIRES:</p> <p>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;</p> <p>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: <a href="http://OCCEWEB.COM/OG/OGFORMS.HTML">OCCEWEB.COM/OG/OGFORMS.HTML</a>; AND,</p> <p>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: <a href="http://FRACFOCUS.ORG">FRACFOCUS.ORG</a></p>
MEMO	<p>5/13/2019 - G71 - PITS 1 &amp; 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT</p>
PENDING CD - 201902633	<p>5/31/2019 - G58 - 29-6N-5W X629390 WDFD 4 WELLS NO OP. NAMED REC 5/28/2019 (P. PORTER)</p>
PENDING CD - 201902634	<p>5/31/2019 - G58 - 20-6N-5W X624422 WDFD 4 WELLS NO OP. NAMED REC 5/28/2019 (P. PORTER)</p>
PENDING CD - 201902635	<p>5/31/2019 - G58 - 17-6N-5W X611024** WDFD 4 WELLS NO OP. NAMED REC 5/28/2019 (P. PORTER)</p>
PENDING CD - 201902636	<p>**S/B SP. ORDER 608652; WILL BE CORRECTED AT NEXT HEARING PER ATTORNEY FOR OP.</p> <p>5/31/2019 - G58 - (I.O.) 29, 20, &amp; 17-6N-5W EST MULTIUNIT HORIZONTAL WELL X629390 MSSP, WDFD, HNTN 29-6N-5W X153801 MSSP X131103 HNTN X624422 WDFD X611024** MSSP, WDFD, HNTN (MSSP, HNTN ARE ADJACENT CSS TO WDFD) 4% 29-6N-5W 48% 20-6N-5W 48% 17-6N-5W NO OP. NAMED REC 5/28/2019 (P. PORTER)</p>
PENDING CD - 201902637	<p>**S/B SP. ORDER 608652; WILL BE CORRECT AT NEXT HEARING PER ATTORNEY FOR OP.</p> <p>5/31/2019 - G58 - (I.O.) 29, 20, &amp; 17-6N-5W X629390 MSSP, WDFD, HNTN 29-6N-5W X153801 MSSP X131103 HNTN X624422 WDFD X611024** MSSP, WDFD, HNTN X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO THE EARLY 4 WELL COMPL. INT. 29-6N-5W NCT 2640' FSL, NCT 0' FNL, NCT 330' FWL COMPL. INT. 20-6N-5W NCT 0' FSL, NCT 0' FNL, NCT 330' FWL COMPL. INT. 17-6N-5W NCT 0' FSL, NCT 150' FNL, NCT 330' FWL NO OP. NAMED REC 5/28/2019 (P. PORTER)</p>
SPACING - 131103	<p>**S/B SP. ORDER 608652; WILL BE CORRECT AT NEXT HEARING PER ATTORNEY FOR OP.</p> <p>5/31/2019 - G58 - (640) 17 &amp; 20-6N-5W EXT 106361 HNTN, OTHERS</p>
SPACING - 153801	<p>5/31/2019 - G58 - (640) 17 &amp; 20-6N-5W EXT OTHERS EXT 147146 MSSP, OTHERS</p>

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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
SPACING - 608652	5/31/2019 - G58 - (640) 17-6N-5W EXT 587940 WDFD, OTHERS
SPACING - 624422	5/31/2019 - G58 - (640) 20-6N-5W EXT 610650 WDFD, OTHERS
SPACING - 629390	5/31/2019 - G58 - (640) 29-6N-5W EXT 416838 HNTN, OTHER EXT 610650 MSSP, WDFD, 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: 20-6N-5W  
BHL-2 17-6N-5W  
BHL-4 32-6N-5W



## COVER SHEET

### CONTINENTAL RESOURCES, INC.

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

Section 20 Township 6N Range 5W I.M.

Well: RK MORRIS 2-29-20-17XHW **051-24650**

County GRADY State OK

Well: EARLY 4-29-32XHW

Operator CONTINENTAL RESOURCES, INC.

#### NAD-83

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE	EXISTING ELEVATION	DESIGN ELEVATION
W2	RK MORRIS 2-29-20-17XHW	596495	2041327	34° 58' 19.73" -97° 45' 24.88"	34.972146 -97.756911	267' FSL / 598' FWL (SW/4 SEC 20)	1131.15'
LP-2	LANDING POINT	596081	2041985	34° 58' 15.62" -97° 45' 16.99"	34.971005 -97.754719	150' FNL / 1254' FWL (NW/4 SEC 29)	---
BHL-2	BOTTOM HOLE LOCATION	606783	2041953	35° 00' 01.47" -97° 45' 17.06"	35.000408 -97.754738	50' FNL / 1254' FWL (NW/4 SEC 17)	---
W4	EARLY 4-29-32XHW	596495	2041357	34° 58' 19.72" -97° 45' 24.52"	34.972146 -97.756811	267' FSL / 628' FWL (SW/4 SEC 20)	1130.01'
LP-4	LANDING POINT	596081	2042051	34° 58' 15.62" -97° 45' 16.20"	34.971005 -97.754499	150' FNL / 1320' FWL (NW/4 SEC 29)	---
PI-1	POINT OF INTERSECT	589298	2042088	34° 57' 08.53" -97° 45' 15.94"	34.952369 -97.754429	1647' FNL / 1320' FWL (NW/4 SEC 32)	---
BHL-4	BOTTOM HOLE LOCATION	585708	2043158	34° 58' 32.97" -97° 45' 03.22"	34.942492 -97.750894	50' FSL / 2372' FWL (SW/4 SEC 32)	---
X-1	R. K. MORRIS #1-29-14XH	594843	2040999	34° 58' 01.42" -97° 45' 28.86"	34.967062 -97.758022	29-6N-SW:   TD: 25,270'   1,582' FNL / 260' FWL	---
X-2	MOWDY #A-1*	586314	2041932	34° 58' 39.01" -97° 45' 17.91"	34.944169 -97.754975	32-6N-SW:   TD: 15,025'   660' FSL / 1,150' FWL	---
X-3	EARLY #1-32-29XH	588106	2043024	34° 58' 56.71" -97° 45' 04.73"	34.949086 -97.751315	32-6N-SW:   TD: 21,435'   2,450' FSL / 2,250' FWL	---
X-4	PEARSON VOSS #1-17	605283	2042023	34° 59' 46.64" -97° 45' 16.26"	34.996288 -97.754518	17-6N-SW:   TD: 14,249'   1,550' FNL / 1,320' FWL	---
X-5	KOLT #1-17H	601777	2045487	34° 59' 11.87" -97° 44' 34.73"	34.986631 -97.742981	17-6N-SW:   TD: 17,356'   225' FSL / 530' FEL	---

#### NAD-27

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE	EXISTING ELEVATION	DESIGN ELEVATION
W2	RK MORRIS 2-29-20-17XHW	596453	2072924	34° 58' 19.48" -97° 45' 23.74"	34.972077 -97.756954	267' FSL / 598' FWL (SW/4 SEC 20)	1131.15'
LP-2	LANDING POINT	596039	2073581	34° 58' 15.37" -97° 45' 15.85"	34.970936 -97.754403	150' FNL / 1254' FWL (NW/4 SEC 29)	---
BHL-2	BOTTOM HOLE LOCATION	606741	2073550	35° 00' 01.22" -97° 45' 15.91"	35.000340 -97.754420	50' FNL / 1254' FWL (NW/4 SEC 17)	---
W4	EARLY 4-29-32XHW	596453	2072954	34° 58' 19.48" -97° 45' 23.36"	34.972077 -97.756495	267' FSL / 628' FWL (SW/4 SEC 20)	1130.01'
LP-4	LANDING POINT	596039	2073647	34° 58' 15.37" -97° 45' 15.06"	34.970936 -97.754183	150' FNL / 1320' FWL (NW/4 SEC 29)	---
PI-1	POINT OF INTERSECT	589256	2073685	34° 57' 08.28" -97° 45' 14.81"	34.952299 -97.754113	1647' FNL / 1320' FWL (NW/4 SEC 32)	---
BHL-4	BOTTOM HOLE LOCATION	585664	2074753	34° 58' 32.72" -97° 45' 02.08"	34.942422 -97.750578	50' FSL / 2372' FWL (SW/4 SEC 32)	---
X-1	R. K. MORRIS #1-29-14XH	594602	2072595	34° 58' 01.18" -97° 45' 27.74"	34.966993 -97.757705	29-6N-SW:   TD: 25,270'   1,582' FNL / 260' FWL	---
X-2	MOWDY #A-1*	586272	2073528	34° 58' 38.76" -97° 45' 16.77"	34.944100 -97.754659	32-6N-SW:   TD: 15,025'   660' FSL / 1,150' FWL	---
X-3	EARLY #1-32-29XH	588064	2074621	34° 58' 56.46" -97° 45' 03.59"	34.949017 -97.750998	32-6N-SW:   TD: 21,435'   2,450' FSL / 2,250' FWL	---
X-4	PEARSON VOSS #1-17	605241	2073619	34° 59' 46.39" -97° 45' 15.12"	34.996220 -97.754201	17-6N-SW:   TD: 14,249'   1,550' FNL / 1,320' FWL	---
X-5	KOLT #1-17H	601735	2077084	34° 59' 11.63" -97° 44' 33.59"	34.986583 -97.742664	17-6N-SW:   TD: 17,356'   225' FSL / 530' FEL	---

Certificate of Authorization No. 7318

Date Staked: 4-4-19  
Date Drawn: 3-8-19



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

#### REVISIONS

No.	DATE	BY	DESCRIPTION	COMMENTS
00	3-8-19	TJW	ISSUED FOR APPROVAL	---
01	4-2-19	HOG	REMOVED EARLY 3	REV'D ALL EXHIBITS
02	4-22-19	HOG	ADDED RK MORRIS 2	REV'D ALL EXHIBITS
03	5-8-19	HOG	REV'D EARLY 4 BHL	REV'D EXHIBITS A (1 & 3)
04	5-9-19	HOG	REV'D RK MORRIS LP/NAME	REV'D ALL EXHIBITS

EXHIBIT: A (2 of 3)  
SHEET: 8.5x14  
SHL: 20-6N-5W  
BHL-2 17-6N-5W

# PETRO LAND SERVICES SOUTH, LLC

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



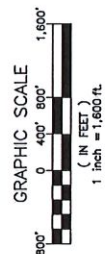
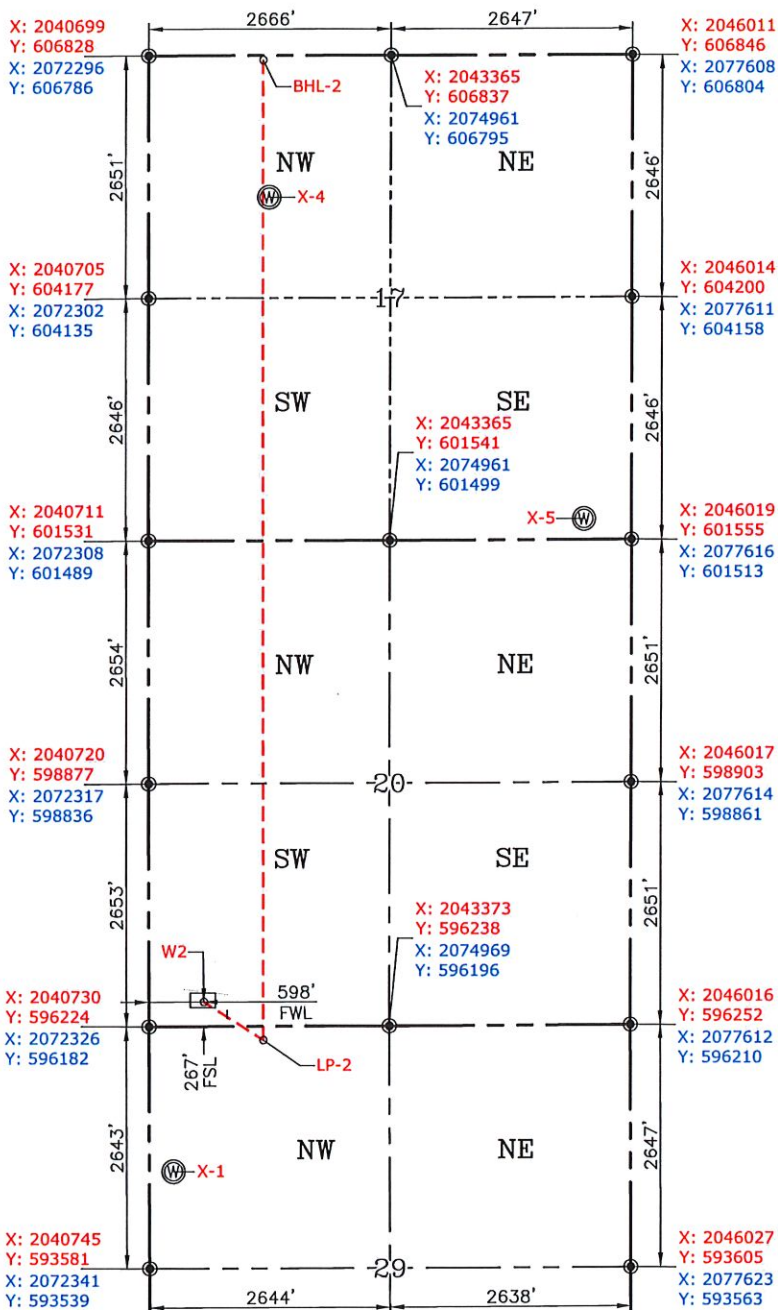
CONTINENTAL  
RESOURCES, INC.  
(OPERATOR)

GRADY

County Oklahoma

267' FSL-598' FWL Section 20 Township 6N Range 5W I.M.

WELL: RK MORRIS  
2-29-20-17XHW



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

CURRENT REV.: 4

Date Drawn: 3-8-19

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