

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

API NUMBER: 051 24652

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: ☐ NE ☐ SW ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 450 2178

Lease Name: RK MORRIS

Well No: 5-29-20-17XHW

Well will be 450 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
2439 COUNTY STREET 2940
CHICKASHA OK 73018

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	12796	6	
2	WOODFORD	13050	7	
3	HUNTON	13176	8	
4			9	
5			10	

Spacing Orders: 629390
624422
131103
153801
608652

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201902641
201902640
201902635
201902634
201902633

Special Orders:

Total Depth: 23385

Ground Elevation: 1156

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 420

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: 19-36633

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 NW NW NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 2178

Depth of Deviation: 11938

Radius of Turn: 477

Direction: 360

Total Length: 10698

Measured Total Depth: 23385

True Vertical Depth: 13176

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 24652 RK MORRIS 5-29-20-17XHW

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: OCCEWEB.COM/OG/OGFORMS.HTML; 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: FRACFOCUS.ORG</p>
MEMO	<p>5/13/2019 - G71 - PITS 1 & 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 - 201902640	<p>**S/B SP. ORDER 608652; WILL BE CORRECTED AT NEXT HEARING PER ATTORNEY FOR OP.</p> <p>5/15/2019 - G58 - (I.O.) 29, 20, & 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 - 201902641	<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, & 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 5 WELL; MAY BE CLOSER THAN 600' TO THE EARLY 1-32-29XH WELL COMPL. INT. 29-6N-5W NCT 2640' FSL, NCT 0' FNL, NCT 660' FEL COMPL. INT. 20-6N-5W NCT 0' FSL, NCT 0' FNL, NCT 660' FEL COMPL. INT. 17-6N-5W NCT 0' FSL, NCT 150' FNL, NCT 660' FEL 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>5/15/2019 - G58 - (640) 17 & 20-6N-5W EXT 106361 HNTN, OTHERS</p>

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
SPACING - 153801	5/15/2019 - G58 - (640) 17 & 20-6N-5W EXT OTHERS EXT 147146 MSSP, OTHERS
SPACING - 608652	5/15/2019 - G58 - (640) 17-6N-5W EXT 587940 WDFD, OTHERS
SPACING - 624422	5/15/2019 - G58 - (640) 20-6N-5W EXT 610650 WDFD, OTHERS
SPACING - 629390	5/15/2019 - G58 - (640) 29-6N-5W EXT 416838 HNTN, OTHER EXT 610650 MSSP, WDFD, OTHERS

EXHIBIT: A (1 of 2)
SHEET: 8.5x11
SHL: 20-6N-5W
BHL-5 17-6N-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: 5-29-20-17XHW **051-24652**
County GRADY State OK Well:
Operator CONTINENTAL RESOURCES, INC.

NAD-83

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W5	RK MORRIS 5-29-20-17XHW	596691	2043838	34° 58' 21.60" -97° 44' 54.70"	34.972668 -97.748529	450' FSL / 2178' FEL (SE/4 SEC 20)	1157.37'	1156.33'
LP-5	LANDING POINT	596091	2043838	34° 58' 15.67" -97° 44' 54.72"	34.971020 -97.748532	150' FNL / 2178' FEL (NE/4 SEC 29)	--	--
BHL-5	BOTTOM HOLE LOCATION	606789	2043834	35° 00' 01.49" -97° 44' 54.45"	35.000413 -97.748459	50' FNL / 2178' FEL (NE/4 SEC 17)	--	--
X-4	PEARSON VOSS #1-17	605283	2042023	34° 59' 46.64" -97° 45' 16.26"	34.996288 -97.754518	17-6N-5W: 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-5W: TD: 17,356' 225' FSL / 530' FEL	--	--

NAD-27

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W5	RK MORRIS 5-29-20-17XHW	596649	2075434	34° 58' 21.36" -97° 44' 53.57"	34.972599 -97.748213	450' FSL / 2178' FEL (SE/4 SEC 20)	1157.37'	1156.33'
LP-5	LANDING POINT	596049	2075435	34° 58' 15.42" -97° 44' 53.58"	34.970951 -97.748216	150' FNL / 2178' FEL (NE/4 SEC 29)	--	--
BHL-5	BOTTOM HOLE LOCATION	606747	2075430	35° 00' 01.24" -97° 44' 53.31"	35.000344 -97.748142	50' FNL / 2178' FEL (NE/4 SEC 17)	--	--
X-4	PEARSON VOSS #1-17	605241	2073619	34° 59' 46.39" -97° 45' 15.12"	34.996220 -97.754201	17-6N-5W: TD: 14,249' 1,550' FNL / 1,320' FWL	--	--
X-5	KOLT #1-17H	601735	2077084	34° 59' 11.62" -97° 44' 33.59"	34.986562 -97.742664	17-6N-5W: TD: 17,356' 225' FSL / 530' FEL	--	--

Certificate of Authorization No. 7318

Date Staked: 5-6-19
Date Drawn: 4-29-19



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

REVISIONS

No.	DATE	BY	DESCRIPTION	COMMENTS
00	4-29-19	HOG	ISSUED FOR APPROVAL	--
01	5-9-19	HOG	REV'D RK MORRIS LP/NAME	REV'D ALL EXHIBITS

