

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

API NUMBER: 051 24633

Approval Date: 05/15/2019

Expiration Date: 11/15/2020

Horizontal Hole
Multi Unit

Oil & Gas

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: 267 628

Lease Name: EARLY

Well No: 4-29-32XHW

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
2439 COUNTY STREET 2872
CHICKASHA OK 73018

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

Name	Depth	Name	Depth
1 WOODFORD	13106	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 629390
416838

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201902204
201902205
201902210
201902212

Special Orders:

Total Depth: 20504

Ground Elevation: 1132

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

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 BED AQUIFER

Pit Location Formation: DUNCAN

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

PERMIT NO: 19-36579

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 BED AQUIFER

Pit Location Formation: DUNCAN

HORIZONTAL HOLE 1

Sec 32 Twp 6N Rge 5W County GRADY

Spot Location of End Point: SE SE SE SW

Feet From: SOUTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 2372

Depth of Deviation: 12613

Radius of Turn: 477

Direction: 170

Total Length: 7142

Measured Total Depth: 20504

True Vertical Depth: 13355

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

Notes:

Category

Description

DEEP SURFACE CASING

5/3/2019 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

5/3/2019 - 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

MEMO

5/3/2019 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

PENDING CD - 201902204

5/3/2019 - G75 - (I.O.) 29 & 32-6N-5W
EST MULTIUNIT HORIZONTAL WELL
X629390 WDFD 29-6N-5W
X416838 WDFD 32-6N-5W
60% 29-6N-5W
40% 32-6N-5W
CONTINENTAL RESOURCES, INC.
REC 5-14-2019 (MINMIER)

This permit does not address the right of entry or settlement of surface damages.

051 24633 EARLY 4-29-32XHW

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
PENDING CD - 201902205	5/3/2019 - G75 - (I.O.) 29 & 32-6N-5W X629390 WDFD 29-6N-5W X416838 WDFD 32-6N-5W X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO R K MORRIS 1-29-17XH & EARLY 2-32-29XH ** COMPL. INT. (29-6N-5W) NCT 150' FNL, NCT 0' FSL, NCT 660' FWL COMPL. INT. (32-6N-5W) NCT 0' FNL, NCT 150' FSL, NCT 660' FWL CONTINENTAL RESOURCES, INC. REC 5-14-2019 (MINMIER)
PENDING CD - 201902210	** S/B EARLY 2-29-32XHW; CORRECTED AT HEARING PER ATTORNEY FOR OPERATOR 5/3/2019 - G75 - 29-6N-5W X629390 WDFD 4 WELLS NO OP. NAMED REC 5-14-2019 (MINMIER)
PENDING CD - 201902212	5/3/2019 - G75 - 32-6N-5W X416838 WDFD 4 WELLS NO OP. NAMED REC 5-14-2019 (MINMIER)
SPACING - 416838	5/3/2019 - G75 - (640) 32-6N-5W VAC OTHER EST OTHER EXT OTHERS EXT 415357 WDFD, OTHERS
SPACING - 629390	5/3/2019 - G75 - (640) 29-6N-5W EXT OTHERS EXT 610650 WDFD, OTHERS

EXHIBIT: A (1 of 3)
SHEET: 8.5x14
SHL: 20-6N-5W
BHL-2 17-6N-5W
BHL-4 32-6N-5W



Continental
RESOURCES

API 051-24633

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.
County GRADY State OK
Operator CONTINENTAL RESOURCES, INC.

RK MORRIS
Well: 2-29-20-17XHW
EARLY 4-29-32XHW
Well: EARLY 4-29-32XHW

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' 24.89"	34.972146 -97.756911	267' FSL / 598' FWL (SW/4 SEC 20)	1131.15'
LP-2	LANDING POINT	596081	2041985	34° 58' 15.82" -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' 15.82" -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	2043156	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	594643	2040999	34° 58' 01.42" -97° 45' 28.88"	34.967082 -97.758022	29-6N-5W: TD: 25,270' 1,582' FNL / 280' FWL	---
X-2	MOWDY #A-1"	586314	2041932	34° 58' 39.01" -97° 45' 17.91"	34.944169 -97.754975	32-6N-5W: TD: 15,025' 660' FSL / 1,150' FWL	---
X-3	EARLY #1-32-29XH	588108	2043024	34° 58' 56.71" -97° 45' 04.73"	34.940086 -97.751315	32-6N-5W: TD: 21,435' 2,450' FSL / 2,250' FWL	---
X-4	PEARSON VOSS #1-17	605283	2042023	34° 59' 46.84" -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
W2	RK MORRIS 2-29-20-17XHW	596453	2072924	34° 58' 19.48" -97° 45' 23.74"	34.972077 -97.756594	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' 23.39"	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	585684	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-5W: TD: 25,270' 1,582' FNL / 280' FWL	---
X-2	MOWDY #A-1"	586272	2073528	34° 58' 38.76" -97° 45' 16.77"	34.944100 -97.754659	32-6N-5W: TD: 15,025' 660' FSL / 1,150' FWL	---
X-3	EARLY #1-32-29XH	588084	2074621	34° 58' 56.46" -97° 45' 03.59"	34.949017 -97.750998	32-6N-5W: 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-5W: TD: 14,249' 1,550' FNL / 1,320' FWL	---
X-5	KOLT #1-17H	601735	2077084	34° 59' 11.63" -97° 44' 33.59"	34.986563 -97.742864	17-6N-5W: 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 (3 of 3)
SHEET: 8.5x14
SHL: 20-6N-5W
BHL-4 32-6N-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-628' FWL Section 20 Township 6N Range 5W I.M.

WELL: EARLY 4-29-32XHW

X: 2040720
Y: 598877
X: 2072317
Y: 598836

X: 2046017
Y: 598903
X: 2077614
Y: 598861

X: 2040730
Y: 596224
X: 2072326
Y: 596182

X: 2043373
Y: 596238
X: 2074969
Y: 596196

X: 2046016
Y: 596252
X: 2077612
Y: 596210

X: 2040745
Y: 593581
X: 2072341
Y: 593539

X: 2046027
Y: 593605
X: 2077623
Y: 593563

X: 2040759
Y: 590937
X: 2072356
Y: 590895

X: 2043404
Y: 590954
X: 2075000
Y: 590912

X: 2046038
Y: 590958
X: 2077634
Y: 590916

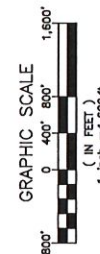
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Y: 588312
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Y: 588270

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Y: 585651
X: 2072381
Y: 585609

X: 2043426
Y: 585657
X: 2075023
Y: 585615

X: 2046067
Y: 585664
X: 2077664
Y: 585623



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

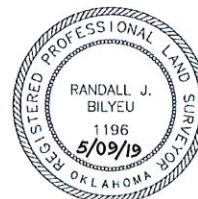
CURRENT REV.: 4

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