

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

API NUMBER: 049 25256

Approval Date: 01/18/2019
Expiration Date: 07/18/2020

Horizontal Hole Oil & Gas
Multi Unit

PERMIT TO DRILL

WELL LOCATION: Sec: 20 Twp: 3N Rge: 4W County: GARVIN
SPOT LOCATION: NW NW NE NW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 322 1440

Lease Name: LANG Well No: 10-20-29-32XHM Well will be 322 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

ALBERT W LANG III
PO BOX 20766
OKLAHOMA CITY OK 73156

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

	Name	Depth	Name	Depth
1	CANEY	14140	6	
2	SYCAMORE	14440	7	
3	WOODFORD	14633	8	
4			9	
5			10	

Spacing Orders: 604249
592945
581999

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201809064
201809065
201809045
201809046
201809047

Special Orders:

Total Depth: 26205 Ground Elevation: 1170 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 360

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: Yes

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

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-36042
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 3N Rge 4W County GARVIN

Spot Location of End Point: N2 SW NE NW

Feet From: NORTH 1/4 Section Line: 750

Feet From: WEST 1/4 Section Line: 1650

Depth of Deviation: 13784

Radius of Turn: 467

Direction: 178

Total Length: 11688

Measured Total Depth: 26205

True Vertical Depth: 14669

End Point Location from Lease,
Unit, or Property Line: 750

Notes:

Category

Description

DEEP SURFACE CASING

12/31/2018 - 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

12/31/2018 - 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

12/31/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201809045

1/18/2019 - G56 - 20-3N-4W
X604249 WDFD, MSSP***
11 WELLS (7 WDFD)(4 MSSP)***
NO OP NAMED
REC 12/21/2018 (THOMAS)

***WILL BE CORRECTED TO SCMR BEFORE FINAL ORDER IS ISSUED PER ATTORNY FOR OPERATOR

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
PENDING CD - 201809046	1/18/2019 - G56 - 29-3N-4W X592945 WDFD, MSSP*** 11 WELLS (7 WDFD)(4 MSSP)*** NO OP NAMED REC 12/21/2018 (THOMAS) ***WILL BE CORRECTED TO SCMR BEFORE FINAL ORDER IS ISSUED PER ATTORNEY FOR OPERATOR
PENDING CD - 201809047	1/18/2019 - G56 - 32-3N-4W X581999 WDFD, MSSP*** 11 WELLS (7 WDFD)(4 MSSP)*** NO OP NAMED REC 12/21/2018 (THOMAS) ***WILL BE CORRECTED TO SCMR BEFORE FINAL ORDER IS ISSUED PER ATTORNEY FOR OPERATOR
PENDING CD - 201809064	1/18/2019 - G56 - (I.O.) 20, 29 & 32-3N-4W ESTABLISH MULTIUNIT HORIZONTAL WELL X604249 CNEY, SCMR, WDFD 20-3N-4W X592945 CNEY, SCMR, WDFD 29-3N-4W X581999 CNEY, SCMR, WDFD 32-3N-4W (CNEY, WDFD ARE ADJACENT COMMON SOURCES OF SUPPLY TO SCMR) 47% 20-3N-4W 48% 29-3N-4W 5% 32-3N-4W CONTINENTAL RESOURCES, INC. REC 12/10/2018 (M. PORTER)
PENDING CD - 201809065	(I.O.) 20, 29 & 32-3N-4W X604249 SCMR, CNEY, WDFD 20-3N-4W X592945 SCMR, CNEY, WDFD 29-3N-4W X581999 SCMR, CNEY, WDFD 32-3N-4W X165:10-3-28(C)(2)(B) SCMR MAY BE CLOSER THAN 600' FROM EXISTING AND/OR PROPOSED WELL COMPL INT (20-3N-4W) NCT 1320' FNL, NCT 0' FSL, NCT 990' FEL COMPL INT (29-3N-4W) NCT 0' FNL, NCT 0' FSL, NCT 990' FEL COMPL INT (32-3N-4W) NCT 0' FNL, NCT 1320' FSL, NCT 990' FEL NO OP NAMED REC 12/10/2018 (M. PORTER)
SPACING - 581999	1/18/2019 - G56 - (640) 32-3N-4W EXT 190289 SCMR, CNEY, WDFD, OTHERS
SPACING - 592945	1/18/2019 - G56 - (640) 29-3N-4W EXT 581999/213539 SCMR, CNEY, WDFD, OTHERS
SPACING - 604249	1/18/2019 - G56 - (640) 20-3N-4W EXT OTHER EST OTHERS EXT 592945 SCMR, CNEY, 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 4)
 SHEET: 8.5x11
 SHL: 20-3N-4W
 BHL-10 32-3N-4W
 BHL-4 20-3N-4W



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 3N Range 4W I.M. Well: LANG 10-20-29-32XHM
 County GARVIN State OK Well: HINES 4-20HW
 Operator CONTINENTAL RESOURCES, INC.

NAD-83

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE	EXISTING ELEVATION	DESIGN ELEVATION
W10	LANG 10-20-29-32XHM	506298	2074844	34° 43' 26.57" -97° 38' 45.93"	34.724049 -97.646092	322' FNL / 1440' FWL (NW/4 SEC 20)	1169.07'
LP-10	LANDING POINT	506299	2075054	34° 43' 26.58" -97° 38' 43.42"	34.724049 -97.645394	322' FNL / 1650' FWL (NW/4 SEC 20)	--
BHL-10	BOTTOM HOLE LOCATION	495302	2075106	34° 41' 37.79" -97° 38' 43.25"	34.693832 -97.645347	750' FNL / 1650' FWL (NW/4 SEC 32)	--
W4	HINES 4-20HW	506269	2074845	34° 43' 26.28" -97° 38' 45.92"	34.723966 -97.646088	352' FNL / 1441' FWL (NW/4 SEC 20)	1168.04'
LP-4	LANDING POINT	506269	2075054	34° 43' 26.28" -97° 38' 43.42"	34.723966 -97.645394	352' FNL / 1650' FWL (NW/4 SEC 20)	--
BHL-4	BOTTOM HOLE LOCATION	501363	2075065	34° 42' 37.75" -97° 38' 43.49"	34.710486 -97.645414	30' FSL / 1650' FWL (SW/4 SEC 20)	--
X-5	LANG #1-20H	501624	2076861	34° 42' 40.27" -97° 38' 21.97"	34.711185 -97.639435	20-3N-4W:SW4SE4SW4SE4 TD: 19,140' 285' FSL / 1,850' FEL	--
X-6	WARDEN #1-20H	501599	2073719	34° 42' 40.13" -97° 38' 59.60"	34.711147 -97.649888	20-3N-4W:SW4SW4SW4SW4 TD: 18,600' 270' FSL / 305' FWL	--
X-7	MARIE GREGORY #1-29H	501599	2073764	34° 42' 40.13" -97° 38' 59.06"	34.711147 -97.649738	20-3N-4W:SE4SW4SW4SW4 TD: 18,477' 270' FSL / 350' FWL	--
X-8	OMER #2-20-17XHS	503632	2078207	34° 43' 00.08" -97° 38' 05.75"	34.716689 -97.634930	20-3N-4W:SW4NE4NE4SE4 TD: 19,035' 2,289' FSL / 491' FEL	--
X-9	OMER #6-20-17XHS	503544	2076566	34° 42' 59.27" -97° 38' 25.42"	34.716463 -97.640393	20-3N-4W:SE4NW4NW4SE4 TD: 18,868' 2,206' FSL / 2,133' FEL	--
X-10	OMER #4-20-17XHS	502448	2074740	34° 42' 48.49" -97° 38' 47.34"	34.713471 -97.646484	20-3N-4W:SW4NW4SE4SW4 TD: 18,913' 1,116' FSL / 1,327' FWL	--
X-11	OMER #3-20-17XHS	503632	2078237	34° 43' 00.08" -97° 38' 05.39"	34.716689 -97.634830	20-3N-4W:SW4NE4NE4SE4 TD: 19,035' 2,289' FSL / 461' FEL	--
X-12	OMER #5-20-29XHS	502448	2074770	34° 42' 48.49" -97° 38' 46.98"	34.713471 -97.646384	20-3N-4W:NW4NW4SE4SW4 TD: 18,913' 1,116' FSL / 1,357' FWL	--
X-13	OMER #7-20-29XHS	503547	2076596	34° 42' 59.30" -97° 38' 25.06"	34.716472 -97.640293	20-3N-4W:SE4NW4NW4SE4 TD: 18,868' 2,209' FSL / 2,103' FEL	--
X-14	BRAY #1	497374	2077411	34° 41' 58.21" -97° 38' 15.56"	34.699503 -97.637656	29-3N-4W:SE4 TD: 12,300' 1,320' FSL / 1,320' FWL 1/4 Sec Line	--
X-15	VESTA MARIE #1-29H	500942	2074758	34° 42' 33.60" -97° 38' 47.19"	34.709332 -97.646440	29-3N-4W:SW4NW4NE4NW4 TD: 19,050' 390' FNL / 1,340' FWL	--

Certificate of Authorization No. 7318

Date Staked: **-**-18
 Date Drawn: 11-1-18



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

REVISIONS				
No.	DATE	BY	DESCRIPTION	COMMENTS
00	11-1-18	HDG	ISSUED FOR APPROVAL	--

EXHIBIT: A (3 of 4)
 SHEET: 8.5x14
 SHL: 20-3N-4W
 BHL-10 32-3N-4W

PETRO LAND SERVICES SOUTH, LLC

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



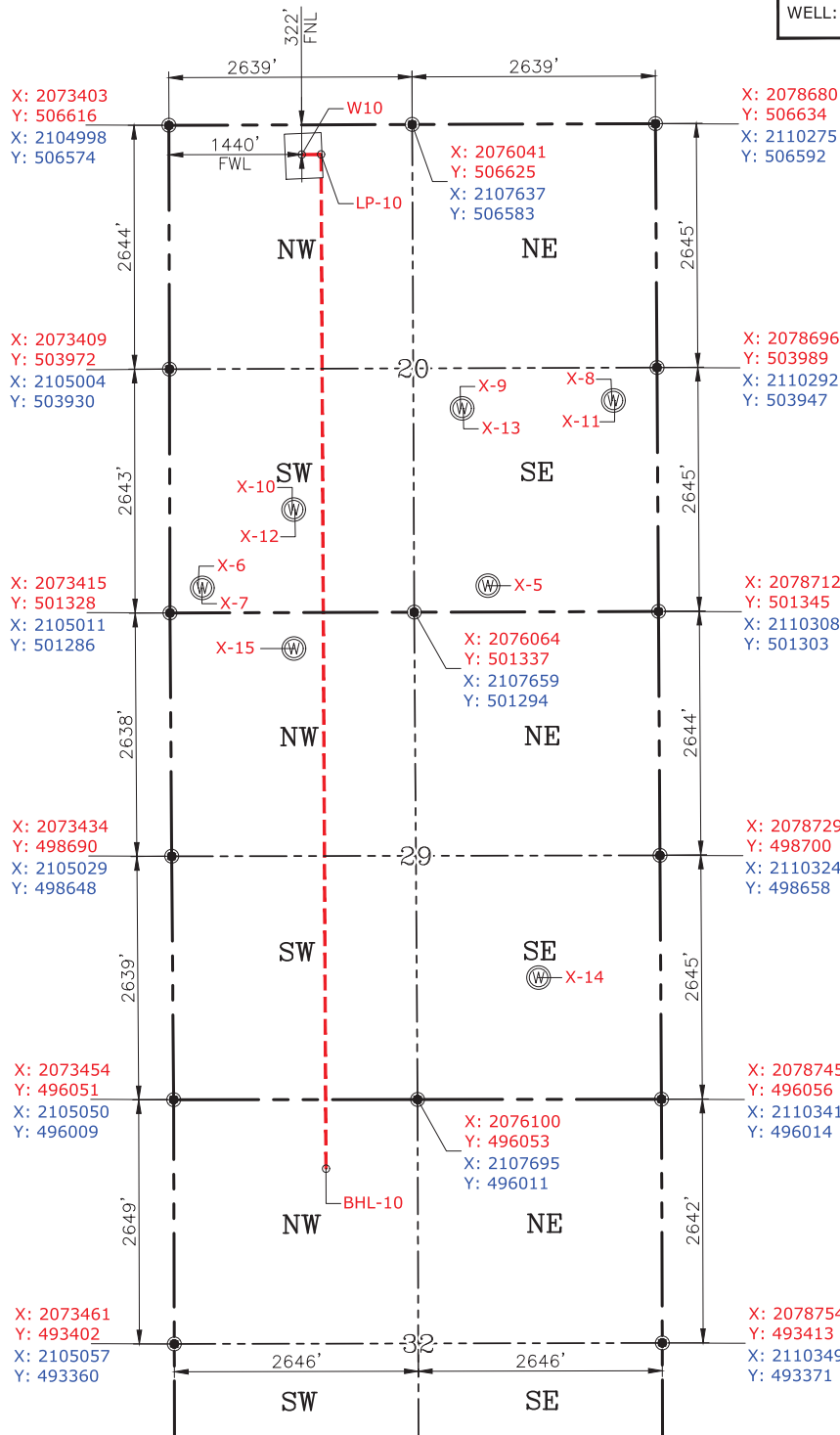
CONTINENTAL
 RESOURCES, INC
 (OPERATOR)

GARVIN

County Oklahoma

322' FNL-1440' FWL Section 20 Township 3N Range 4W I.M.

WELL: LANG
 10-20-29-32XHM



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

CURRENT REV.: 0
 Date Drawn: 11-1-18

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.



Randall J. Bilyeu

Oklahoma PLS No.1196 DATE