

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

API NUMBER: 049 25261

Approval Date: 02/08/2019

Expiration Date: 08/08/2020

Horizontal Hole
Oil & Gas
Multi Unit

PERMIT TO DRILL

WELL LOCATION: Sec: 20 Twp: 3N Rge: 4W

County: GARVIN

SPOT LOCATION:

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 1630 632

Lease Name: LANG

Well No: 3-20-29-32XHW

Well will be 632 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

ALBERT W LANG III
PO BOX 20766
OKLAHOMA CITY OK 73156

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

	Name	Depth	Name	Depth
1	SYCAMORE	14360	6	
2	WOODFORD	14543	7	
3	HUNTON	14743	8	
4			9	
5			10	

Spacing Orders: 604249
592945
581999

Location Exception Orders:

Increased Density Orders: 690290
690291
690292

Pending CD Numbers: 201809050
201809051

Special Orders:

Total Depth: 21519

Ground Elevation: 1158

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 380

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: 18-35928

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 SE NW NW

Feet From: NORTH 1/4 Section Line: 825

Feet From: WEST 1/4 Section Line: 990

Depth of Deviation: 14021

Radius of Turn: 495

Direction: 178

Total Length: 6720

Measured Total Depth: 21519

True Vertical Depth: 14777

End Point Location from Lease,
Unit, or Property Line: 825

Notes:

Category

Description

DEEP SURFACE CASING

1/24/2019 - 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

HYDRAULIC FRACTURING

1/24/2019 - 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

INCREASED DENSITY - 690290

2/8/2019 - G56 - 20-3N-4W
X604249 WDFD
4 WELLS (SCMR)
7 WELLS (WDFD)
CONTINENTAL RESOURCES, INC.
1/24/2019

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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.

049 25261 LANG 3-20-29-32XHW

Category	Description
INCREASED DENSITY - 690291	2/8/2019 - G56 - 29-3N-4W X592945 WDFD 4 WELLS (SCMR) 7 WELLS (WDFD) CONTINENTAL RESOURCES, INC. 1/24/2019
INCREASED DENSITY - 690292	2/8/2019 - G56 - 32-3N-4W X581999 WDFD 4 WELLS (SCMR) 7 WELLS (WDFD) CONTINENTAL RESOURCES, INC. 1/24/2019
MEMO	1/24/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 201809050	2/8/2019 - G56 - (I.O.) 20, 29, 32-3N-4W ESTABLISH MULTIUNIT HORIZONTAL WELL X604249 SCMR, WDFD, HNTN 20-3N-4W X592945 SCMR, WDFD, HNTN 29-3N-4W X581999 SCMR, WDFD, HNTN 32-3N-4W (SCMR, HNTN ARE ADJACENT COMMON SOURCES OF SUPPLY TO WDFD) 28% 20-3N-4W 64% 29-3N-4W 8% 32-3N-4W CONTINENTAL RESOURCES, INC. REC 12/10/2018 (M. PORTER)
PENDING CD - 201809051	2/8/2019 - G56 - (I.O.) 20, 29, 32-3N-4W X604249 SCMR, WDFD, HNTN 20-3N-4W X592945 SCMR, WDFD, HNTN 29-3N-4W X581999 SCMR, WDFD, HNTN 32-3N-4W X165:10-3-28(C)(2)(B) WDFD MAY BE CLOSER THAN 600' FROM EXISTING AND/OR PROPOSED WELL COMPL INT (20-3N-4W) NCT 1320' FNL, NCT 0' FSL, NCT 660' FWL COMPL INT (29-3N-4W) NCT 0' FNL, NCT 0' FSL, NCT 660' FWL COMPL INT (32-3N-4W) NCT 0' FNL, NCT 1320' FSL, NCT 660' FWL NO OP NAMED REC 12/10/2018 (M. PORTER)
SPACING - 581999	2/8/2019 - G56 - (640) 32-3N-4W EXT 190289 WDFD, HNTN, SCMR, OTHERS
SPACING - 592945	2/8/2019 - G56 - (640) 29-3N-4W EXT 581999/213539 WDFD, SCMR, HNTN, OTHERS
SPACING - 604249	2/8/2019 - G56 - (640) 20-3N-4W EXT OTHER EST OTHERS EXT 592945 SCMR, WDFD, HNTN, OTHERS

EXHIBIT: A (1 of 6)
 SHEET: 8.5x14
 SHL: 20-3N-4W
 BHL-L2 32-3N-4W
 BHL-L3 32-3N-4W
 BHL-H2 17-3N-4W
 BHL-H3 17-3N-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.
 County GARVIN State OK
 Operator CONTINENTAL RESOURCES, INC.

Well: LANG 2-20-29-32XHW
 Well: LANG 3-20-29-32XHW
 Well: HINES 2-20-17XHW
 Well: HINES 3-20-17XHW

NAD-83							
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE	EXISTING ELEVATION	DESIGN ELEVATION
W-L2	LANG 2-20-29-32XHW	503001	2073999	34° 42' 53.98" -97° 38' 56.19"	34.714995 -97.648941	1671' FSL / 588' FWL (SW/4 SEC 20)	1161.22' 1157.80'
LP-L2	LANDING POINT	503000	2073741	34° 42' 53.99" -97° 38' 59.28"	34.714996 -97.649800	1671' FSL / 330' FWL (SW/4 SEC 20)	-- --
BHL-L2	BOTTOM HOLE LOCATION	494851	2073788	34° 41' 33.38" -97° 38' 59.06"	34.692604 -97.649739	1200' FNL / 330' FWL (NW/4 SEC 32)	-- --
W-L3	LANG 3-20-29-32XHW	502960	2074043	34° 42' 53.58" -97° 38' 55.66"	34.714882 -97.648795	1630' FSL / 632' FWL (SW/4 SEC 20)	1159.01' 1157.80'
LP-L3	LANDING POINT	502961	2074401	34° 42' 53.58" -97° 38' 51.37"	34.714883 -97.647603	1630' FSL / 990' FWL (SW/4 SEC 20)	-- --
BHL-L3	BOTTOM HOLE LOCATION	495227	2074447	34° 41' 37.07" -97° 38' 51.15"	34.693630 -97.647543	825' FNL / 990' FWL (NW/4 SEC 32)	-- --
W-H2	HINES 2-20-17XHW	503021	2073977	34° 42' 54.18" -97° 38' 56.45"	34.715051 -97.649014	1691' FSL / 566' FWL (SW/4 SEC 20)	1161.35' 1157.80'
LP-H2	LANDING POINT	503020	2073741	34° 42' 54.19" -97° 38' 59.28"	34.715051 -97.649799	1691' FSL / 330' FWL (SW/4 SEC 20)	-- --
BHL-H2	BOTTOM HOLE LOCATION	511874	2073702	34° 44' 21.77" -97° 38' 59.38"	34.739380 -97.649828	30' FNL / 330' FWL (NW/4 SEC 17)	-- --
W-H3	HINES 3-20-17XHW	502980	2074021	34° 42' 53.78" -97° 38' 55.93"	34.714939 -97.648868	1650' FSL / 610' FWL (SW/4 SEC 20)	1160.13' 1157.80'
LP-H3	LANDING POINT	502981	2074401	34° 42' 53.78" -97° 38' 51.37"	34.714938 -97.647603	1650' FSL / 990' FWL (SW/4 SEC 20)	-- --
BHL-H3	BOTTOM HOLE LOCATION	511876	2074362	34° 44' 21.76" -97° 38' 51.47"	34.739377 -97.647631	30' FNL / 990' FWL (NW/4 SEC 17)	-- --
X-1	CUNNINGHAM RANCH #1-17	509879	2076687	34° 44' 01.92" -97° 38' 23.69"	34.733868 -97.639915	17-3N-4W: S4SW4NE4 TD: 12,500' 610' FSL / 660' FWL	-- --
X-2	HINES #1-17H	506791	2074852	34° 43' 31.44" -97° 38' 45.81"	34.725401 -97.646059	17-3N-4W:SW4SW4SE4SW4 TD: 19,332' 170' FSL / 1,450' FWL	-- --
X-3	OMER #1-17H	506912	2073801	34° 43' 32.68" -97° 38' 58.40"	34.725744 -97.649555	17-3N-4W:SE4SW4SW4SW4 TD: 17,871' 295' FSL / 400' FWL	-- --
X-4	PURDY HART SU NE #ZZ-21W	511252	2078001	34° 44' 15.46" -97° 38' 07.89"	34.737628 -97.635525	17-3N-4W:NE4NE4 TD: 9,260' 1,980' FSL Sec Line / 1,980' FWL Sec Line	-- --
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:NN4NW4SE4SW4 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:NN4NW4SE4SW4 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 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: 11-12-18



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

REVISIONS

No.	DATE	BY	DESCRIPTION	COMMENTS
00	11-12-18	HOG	ISSUED FOR APPROVAL	--

EXHIBIT: A (4 of 6)
SHEET: 8.5x14
SHL: 20-3N-4W
BHL-L3 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



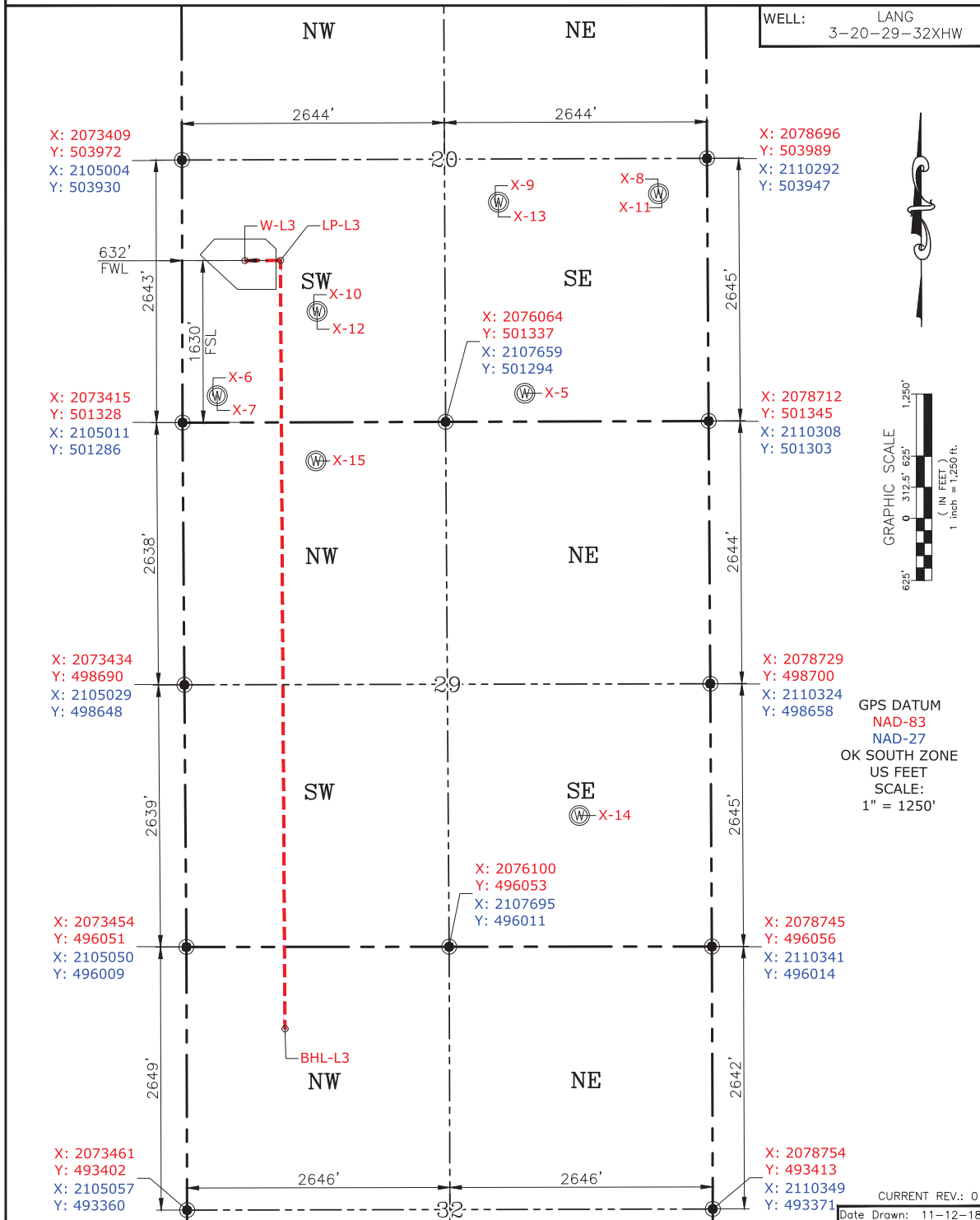
CONTINENTAL
RESOURCES, INC
(OPERATOR)

GARVIN

County Oklahoma

1630' FSL-632' FWL Section 20 Township 3N Range 4W I.M.

WELL: LANG
3-20-29-32XHW



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