

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

API NUMBER: 049 25263

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: ☐ NW ☐ NW ☐ SE ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 1119 1556

Lease Name: LANG

Well No: 4-20-29-32XHW

Well will be 1119 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
P.O. BOX 20766
OKLAHOMA CITY OK 73156

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

Name	Depth	Name	Depth
1 WOODFORD	14525	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 604249
592945
581999

Location Exception Orders:

Increased Density Orders: 690290
690291
690292

Pending CD Numbers: 201809052
201809053

Special Orders:

Total Depth: 21466

Ground Elevation: 1147

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 370

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: 18-35988

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 NE NW

Feet From: NORTH 1/4 Section Line: 750

Feet From: WEST 1/4 Section Line: 2310

Depth of Deviation: 14048

Radius of Turn: 467

Direction: 175

Total Length: 6685

Measured Total Depth: 21466

True Vertical Depth: 14758

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

INCREASED DENSITY - 690290

2/8/2019 - G56 - 20-3N-4W
X604249 WDFD
4 WELLS OTHER
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 25263 LANG 4-20-29-32XHW

Category	Description
INCREASED DENSITY - 690291	2/8/2019 - G56 - 29-3N-4W X592945 WDFD 4 WELLS OTHER 7 WELLS WDFD CONTINENTAL RESOURCES, INC. 1/24/2019
INCREASED DENSITY - 690292	2/8/2019 - G56 - 32-3N-4W X581999 WDFD 4 WELLS OTHER 7 WELLS WDFD CONTINENTAL RESOURCES, INC. 1/24/2019
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 - 201809052	2/8/2019 - G56 - (I.O.) 20, 29, 32-3N-4W ESTABLISH MULTIUNIT HORIZONTAL WELL X604249 WDFD, OTHERS 20-3N-4W X592945 WDFD, OTHERS 29-3N-4W X581999 WDFD, OTHERS 32-3N-4W 27% 20-3N-4W 61% 29-3N-4W 12% 32-3N-4W CONTINENTAL RESOURCES, INC. REC 12/10/2018 (M. PORTER)
PENDING CD - 201809053	2/8/2019 - G56 - (I.O.) 20, 29, 32-3N-4W X604249 WDFD, OTHERS 20-3N-4W X592945 WDFD, OTHERS 29-3N-4W X581999 WDFD, OTHERS 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 1320' FWL COMPL INT (29-3N-4W) NCT 0' FNL, NCT 0' FSL, NCT 1320' FWL COMPL INT (32-3N-4W) NCT 0' FNL, NCT 1320' FSL, NCT 1320' FWL NO OP NAMED REC 12/10/2018 (M. PORTER)
SPACING - 581999	2/8/2019 - G56 - (640) 32-3N-4W EXT 190289 WDFD, OTHERS
SPACING - 592945	2/8/2019 - G56 - (640) 29-3N-4W EXT 581999/213539 WDFD, OTHERS
SPACING - 604249	2/8/2019 - G56 - (640) 20-3N-4W EXT OTHER EST OTHERS EXT 592945 WDFD, OTHERS

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



COVER SHEET CONTINUED...

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 4-20-29-32XHW
County GARVIN State OK Well: HINES 5-20-17XHW
Operator CONTINENTAL RESOURCES, INC.

NAD-27								
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W4	LANG 4-20-29-32XHW	502410	2106564	34° 42' 48.25" -97° 38' 43.48"	34.713402 -97.645412	1119' FSL / 1556' FWL (SW/4 SEC 20)	1147.45'	N/A
LP-4	LANDING POINT	502412	2107318	34° 42' 48.24" -97° 38' 34.45"	34.713401 -97.642904	1119' FSL / 2310' FWL (SW/4 SEC 20)	--	--
BHL-4	BOTTOM HOLE LOCATION	495261	2107362	34° 41' 37.50" -97° 38' 34.23"	34.693750 -97.642842	750' FNL / 2310' FWL (NW/4 SEC 32)	--	--
W5	HINES 5-20-17XHW	502410	2106594	34° 42' 48.25" -97° 38' 43.12"	34.713401 -97.645312	1119' FSL / 1586' FWL (SW/4 SEC 20)	1147.37'	N/A
LP-5	LANDING POINT	502412	2107318	34° 42' 48.24" -97° 38' 34.45"	34.713401 -97.642904	1119' FSL / 2310' FWL (SW/4 SEC 20)	--	--
BHL-5	BOTTOM HOLE LOCATION	511836	2107277	34° 44' 21.46" -97° 38' 34.54"	34.739295 -97.642928	30' FNL / 2310' FWL (NW/4 SEC 17)	--	--
X-1	CUNNINGHAM RANCH #1-17	509836	2108285	34° 44' 01.65" -97° 38' 22.55"	34.733791 -97.639598	17-3N-4W: S4SW4NE4 TD: 12,500' 610' FSL / 660' FWL	--	--
X-2	HINES #1-17H	506748	2106450	34° 43' 31.17" -97° 38' 44.67"	34.725324 -97.645741	17-3N-4W:SW4SW4SE4SW4 TD: 19,332' 170' FSL / 1,450' FWL	--	--
X-3	OMER #1-17H	506870	2105399	34° 43' 32.40" -97° 38' 57.25"	34.725668 -97.649236	17-3N-4W:SE4SW4SW4SW4 TD: 17,871' 295' FSL / 400' FWL	--	--
X-4	PURDY HART SU NE #22-21W	511210	2109599	34° 44' 15.19" -97° 38' 06.74"	34.737552 -97.635207	17-3N-4W:NE4NE4 TD: 9,260' 1,980' FSL ¼ Sec Line / 1,980' FWL ¼ Sec Line	--	--
X-5	LANG #1-20H	501582	2108459	34° 42' 39.99" -97° 38' 20.82"	34.711108 -97.639117	20-3N-4W:SW4SE4SW4SE4 TD: 19,140' 285' FSL / 1,850' FEL	--	--
X-6	WARDEN #1-20H	501557	2105318	34° 42' 39.85" -97° 38' 58.45"	34.711070 -97.649570	20-3N-4W:SW4SW4SW4SW4 TD: 18,600' 270' FSL / 305' FWL	--	--
X-7	MARIE GREGORY #1-29H	501557	2105363	34° 42' 39.85" -97° 38' 57.91"	34.711070 -97.649420	20-3N-4W:SE4SW4SW4SW4 TD: 18,477' 270' FSL / 350' FWL	--	--
X-8	OMER #2-20-17XHS	503590	2109803	34° 42' 59.81" -97° 38' 04.64"	34.716613 -97.634621	20-3N-4W:SW4NE4NE4SE4 TD: 19,035' 2,289' FSL / 491' FEL	--	--
X-9	OMER #6-20-17XHS	503502	2108161	34° 42' 58.99" -97° 38' 24.30"	34.716387 -97.640084	20-3N-4W:SE4NW4NW4SE4 TD: 18,868' 2,206' FSL / 2,133' FEL	--	--
X-10	OMER #4-20-17XHS	502407	2106335	34° 42' 48.23" -97° 38' 46.23"	34.713397 -97.646176	20-3N-4W:NN4NW4SE4SW4 TD: 18,913' 1,116' FSL / 1,327' FWL	--	--
X-11	OMER #3-20-17XHS	503590	2109833	34° 42' 59.81" -97° 38' 04.28"	34.716613 -97.634521	20-3N-4W:SW4NE4NE4SE4 TD: 19,035' 2,289' FSL / 461' FEL	--	--
X-12	OMER #5-20-29XHS	502407	2106364	34° 42' 48.22" -97° 38' 45.88"	34.713396 -97.646077	20-3N-4W:NN4NW4SE4SW4 TD: 18,913' 1,116' FSL / 1,357' FWL	--	--
X-13	OMER #7-20-29XHS	503505	2108191	34° 42' 59.02" -97° 38' 23.94"	34.716395 -97.639984	20-3N-4W:SE4NW4NW4SE4 TD: 18,868' 2,209' FSL / 2,103' FEL	--	--
X-14	BRAY #1	497332	2109009	34° 41' 57.93" -97° 38' 14.42"	34.699425 -97.637338	29-3N-4W:SE4 TD: 12,300' 1,320' FSL / 1,320' FWL ¼ Sec Line	--	--
X-15	VESTA MARIE #1-29H	500900	2108353	34° 42' 33.32" -97° 38' 46.07"	34.709256 -97.646131	29-3N-4W:SW4NW4NE4NW4 TD: 19,050' 390' FNL / 1,340' FWL	--	--
X-16	COLBERT #1-32H	490944	2105853	34° 40' 54.85" -97° 38' 52.48"	34.681903 -97.647911	32-3N-4W:SW4SE4SW4SW4 TD: 19,815' 230' FSL / 790' FWL	--	--

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



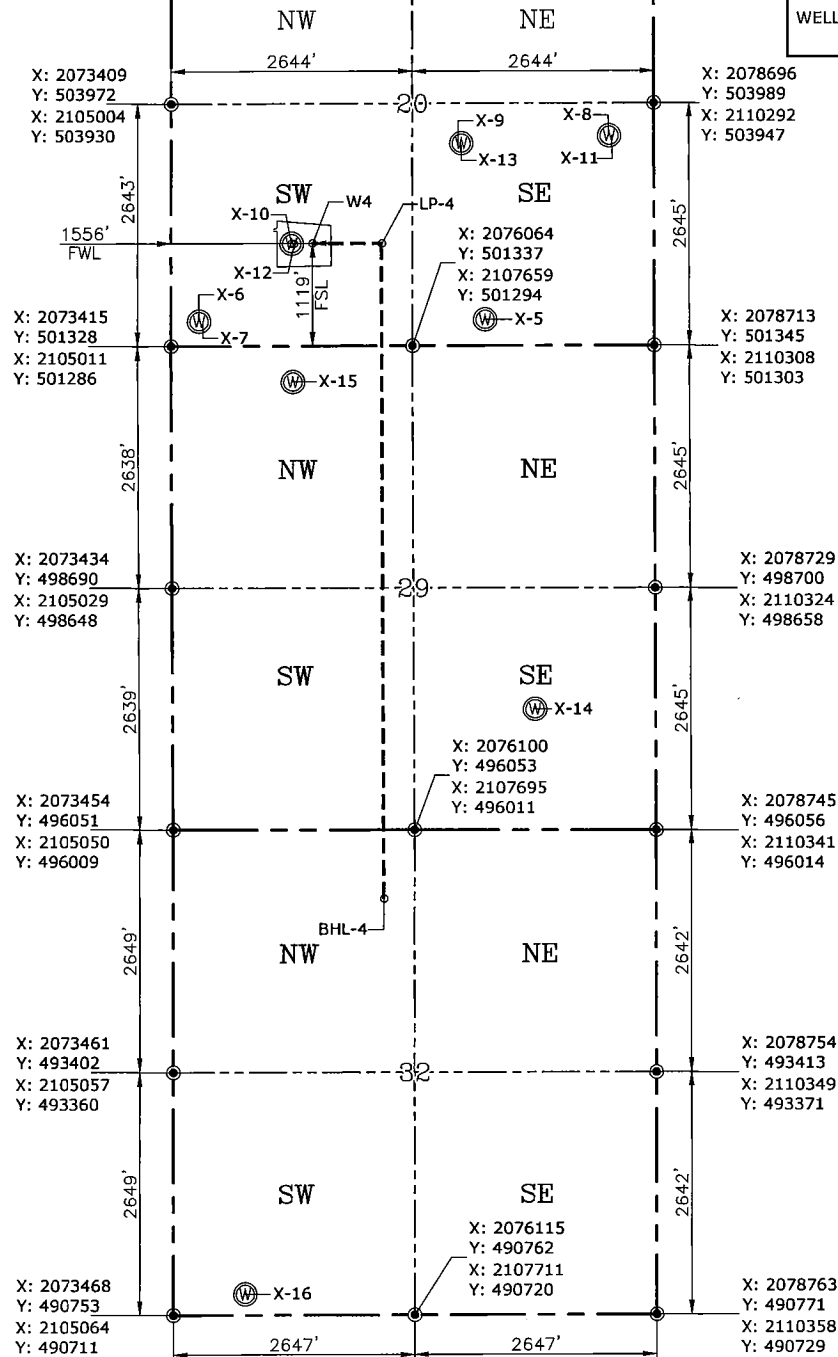
CONTINENTAL
RESOURCES, INC
(OPERATOR)

GARVIN

County Oklahoma

1119' FSL-1556' FWL Section 20 Township 3N Range 4W I.M.

WELL: LANG
4-20-29-32XHW



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

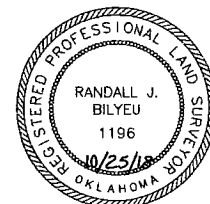
CURRENT REV.: 0

Date Drawn: 10-24-18

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