

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

API NUMBER: 049 25241

Approval Date: 12/13/2018  
Expiration Date: 06/13/2020

Horizontal Hole Oil & Gas  
Multi Unit

PERMIT TO DRILL

WELL LOCATION: Sec: 20 Twp: 3N Rge: 4W County: GARVIN  
SPOT LOCATION: SE NE NW SE FEET FROM QUARTER: FROM SOUTH FROM EAST  
SECTION LINES: 2285 1415

Lease Name: HINES Well No: 8-20-17XHW Well will be 1415 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 269091  
OKLAHOMA CITY, OK 73126-9000

LYNN & ANN ROLEN, H&W  
PO BOX 874  
LINDSAY OK 73052

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

Name	Depth	Name	Depth
1 WOODFORD	14635	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 608545 Location Exception Orders: 686466 Increased Density Orders: 684890  
604249 684889  
686465

Pending CD Numbers:

Special Orders:

Total Depth: 23238 Ground Elevation: 1165 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 350

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: 18-35977

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 17 Twp 3N Rge 4W County GARVIN

Spot Location of End Point: N2 NW NE NE

Feet From: NORTH 1/4 Section Line: 30

Feet From: EAST 1/4 Section Line: 990

Depth of Deviation: 14223

Radius of Turn: 465

Direction: 3

Total Length: 8285

Measured Total Depth: 23238

True Vertical Depth: 14992

End Point Location from Lease,  
Unit, or Property Line: 30

Notes:

Category

Description

DEEP SURFACE CASING

12/12/2018 - 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

12/12/2018 - 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](http://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](http://FRACFOCUS.ORG)

INCREASED DENSITY - 684889

12/12/2018 - G56 - 17-3N-4W  
X608545 WDFD  
7 WELLS  
CONTINENTAL RESOURCES, INC.  
10/12/2018

INCREASED DENSITY - 684890

12/12/2018 - G56 - 20-3N-4W  
X604249 WDFD  
7 WELLS  
CONTINENTAL RESOURCES, INC.  
10/12/2018

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
LOCATION EXCEPTION - 686466	12/12/2018 - G56 - (I.O.) 20 & 17-3N-4W X604249 WDFD 20-3N-4W X608545 WDFD 17-3N-4W X165:10-3-28(C)(2)(B) WDFD MAY BE CLOSER THAN 600' FROM PROPOSED WELLS COMPL INT (20-3N-4W) NCT 1320' FSL, NCT 0' FNL, NCT 660' FEL COMPL INT (17-3N-4W) NCT 0' FSL, NCT 150' FNL, NCT 660' FEL CONTINENTAL RESOURCES, INC. 11/9/2018
MEMO	12/12/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 604249	12/12/2018 - G56 - (640) 20-3N-4W EXT OTHERS EST OTHERS EXT 592945 WDFD, OTHERS
SPACING - 608545	12/12/2018 - G56 - (640) 17-3N-4W EXT OTHERS EXT 590255 WDFD, OTHERS
SPACING - 686465	12/12/2018 - G56 - (I.O.) 20 & 17-3N-4W ESTABLISH MULTIUNIT HORIZONTAL WELL X604249 WDFD 20-3N-4W X608545 WDFD 17-3N-4W 33% 20-3N-4W 67% 17-3N-4W CONTINENTAL RESOURCES, INC. 11/9/2018

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 5)  
 SHEET: 8.5x14  
 SHL: 20-3N-4W  
 BHL-8 17-3N-4W  
 BHL-7 32-3N-4W  
 BHL-12 32-3N-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: HINES 8-20-17XHW  
 County GARVIN State OK Well: LANG 7-20-29-32XHW  
 Operator CONTINENTAL RESOURCES, INC. Well: LANG 12-20-29-32XHM

NAD-83								
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W8	HINES 8-20-17XHW	503625	2077283	34° 43' 00.05" -97° 38' 16.82"	34.716680 -97.638005	2285' FSL / 1415' FEL (SE/4 SEC 20)	1165.13'	1169.60'
LP-8	LANDING POINT	503722	2077708	34° 43' 00.99" -97° 38' 11.73"	34.716942 -97.636591	2381' FSL / 990' FEL (SE/4 SEC 20)	--	--
BHL-8	BOTTOM HOLE LOCATION	511882	2077675	34° 44' 21.70" -97° 38' 11.77"	34.739362 -97.636603	30' FNL / 990' FEL (NE/4 SEC 17)	--	--
W7	LANG 7-20-29-32XHW	503625	2077313	34° 43' 00.05" -97° 38' 16.46"	34.716680 -97.637905	2285' FSL / 1385' FEL (SE/4 SEC 20)	1165.14'	1169.60'
LP-7	LANDING POINT	503627	2077708	34° 43' 00.04" -97° 38' 11.73"	34.716679 -97.636590	2285' FSL / 990' FEL (SE/4 SEC 20)	--	--
BHL-7	BOTTOM HOLE LOCATION	495425	2077757	34° 41' 38.91" -97° 38' 11.49"	34.694142 -97.636526	630' FNL / 990' FEL (NE/4 SEC 32)	--	--
W12	LANG 12-20-29-32XHM	503625	2077343	34° 43' 00.05" -97° 38' 16.10"	34.716680 -97.637805	2285' FSL / 1355' FEL (SE/4 SEC 20)	1165.24'	1169.60'
LP-12	LANDING POINT	503627	2077708	34° 43' 00.04" -97° 38' 11.73"	34.716679 -97.636590	2285' FSL / 990' FEL (SE/4 SEC 20)	--	--
BHL-12	BOTTOM HOLE LOCATION	495425	2077757	34° 41' 38.91" -97° 38' 11.49"	34.694142 -97.636526	630' FNL / 990' FEL (NE/4 SEC 32)	--	--
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:SW4SE4SE4SW4   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 1/2 Sec Line / 1,980' FWL 1/2 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: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:SW4NW4SE4SW4   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 1/2 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: 11-30-18



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

REVISIONS				
No.	DATE	BY	DESCRIPTION	COMMENTS
00	11-30-18	HGD	ISSUED FOR APPROVAL	--

EXHIBIT: A (3 of 5)  
 SHEET: 8.5x14  
 SHL: 20-3N-4W  
 BHL-8: 17-3N-4W

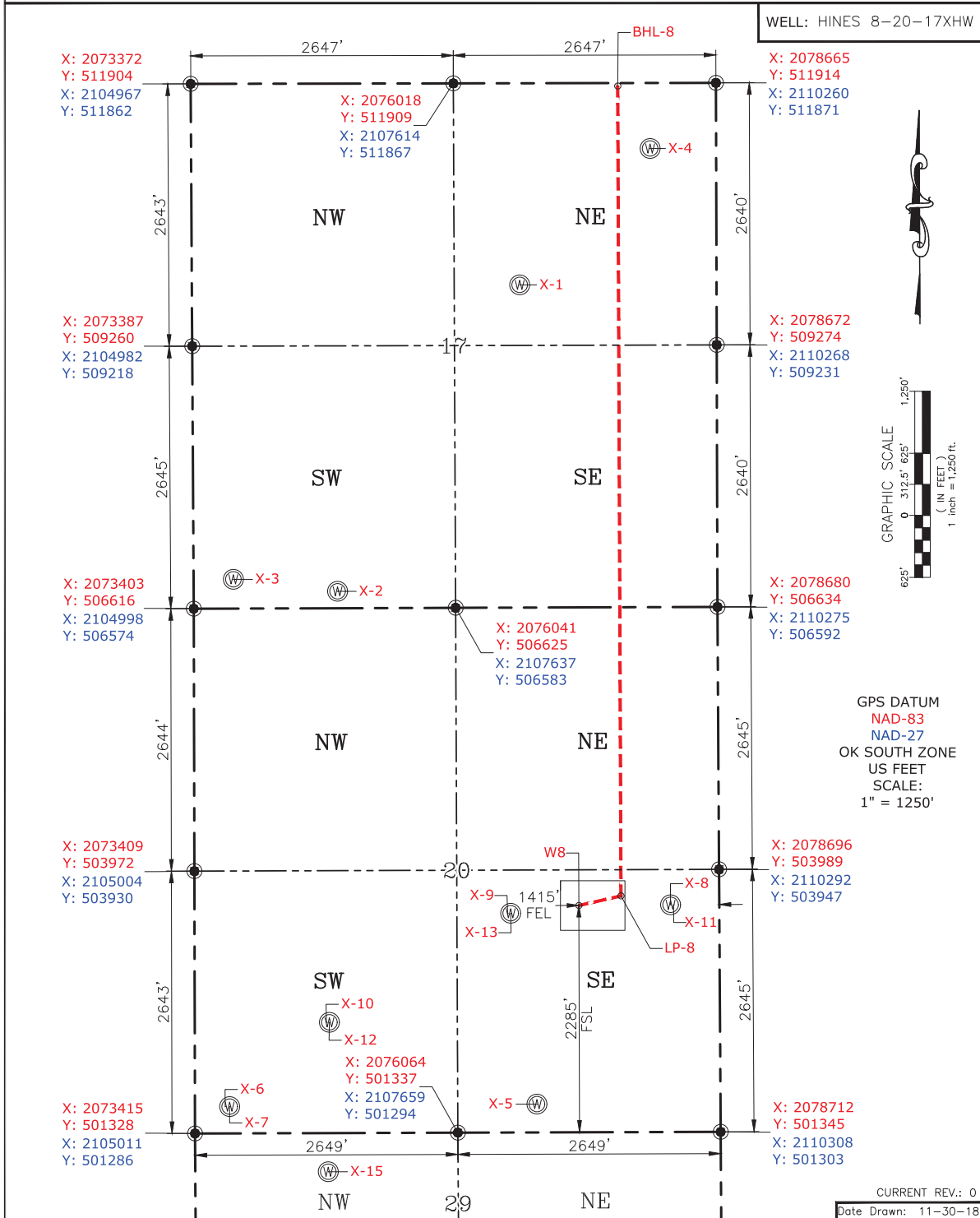
**PETRO LAND SERVICES SOUTH, LLC**

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  
 2285' FSL-1415' FEL Section 20 Township 3N Range 4W I.M.



CURRENT REV.: 0  
 Date Drawn: 11-30-18

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