

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

API NUMBER: 049 25268

Approval Date: 03/01/2019
Expiration Date: 09/01/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

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

County: GARVIN

SPOT LOCATION: NE NW NW NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 285 2051

Lease Name: HINES

Well No: 7-17HW

Well will be 285 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

ADAM & TERESA RAMAGE
11784 E. COUNTY ROAD 1578
LINDSAY OK 73052

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

	Name	Depth	Name	Depth
1	WOODFORD	14323	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 608545

Location Exception Orders: 686464

Increased Density Orders: 684889

Pending CD Numbers:

Special Orders:

Total Depth: 19177

Ground Elevation: 1184

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 340

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: 19-36229

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 NE NW NE

Feet From: NORTH 1/4 Section Line: 30

Feet From: EAST 1/4 Section Line: 1650

Depth of Deviation: 13957

Radius of Turn: 477

Direction: 5

Total Length: 4471

Measured Total Depth: 19177

True Vertical Depth: 14568

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

Notes:

Category

Description

DEEP SURFACE CASING

2/7/2019 - 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

2/7/2019 - 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 - 684889

3/1/2019 - G75 - 17-3N-4W
X608545 WDFD
7 WELLS
CONTINENTAL RESOURCES, INC.
10-12-2018

LOCATION EXCEPTION - 686464

3/1/2019 - G75 - (I.O.) 17-3N-4W
X608545 WDFD, OTHERS
X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO EXISTING/PROPOSED WELLS
COMPL. INT. NCT 150' FSL, NCT 150' FNL, NCT 990' FEL
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.

Category	Description
MEMO	2/7/2019 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT
SPACING - 608545	3/1/2019 - G75 - (640) 17-3N-4W EXT OTHERS EXT 590255 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 3)
 SHEET: 8.5x11
 SHL: 20-3N-4W
 BHL-7 17-3N-4W



API 049-25268

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 7-17HW
 County GARVIN State OK Well: --
 Operator CONTINENTAL RESOURCES, INC.

NAD-83

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W7	HINES 7-17HW	506342	2076631	34° 43' 26.94" -97° 38' 24.52"	34.724151 -97.640145	285' FNL / 2051' FEL (NE/4 SEC 20)	1183.33'	1184.38'
LP-7	LANDING POINT	506678	2077030	34° 43' 30.25" -97° 38' 19.72"	34.725070 -97.638812	50' FSL / 1650' FEL (SE/4 SEC 17)	--	--
BHL-7	BOTTOM HOLE LOCATION	511880	2077015	34° 44' 21.71" -97° 38' 19.68"	34.739365 -97.638800	30' FNL / 1650' FEL (NE/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:SE4SW4SE4SW4 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 ¼ Sec Line / 1,980' FWL ¼ 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:NW4NW4SE4SW4 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	--	--

Certificate of Authorization No. 7318

Date Staked: 11-16-18
 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	HDG	ISSUED FOR APPROVAL	--
01	11-19-18	HDG	REV'D ACCESS	REV'D EXHIBIT B,F,G,H,I

EXHIBIT: A (3 of 3)
 SHEET: 8.5x14
 SHL: 20-3N-4W
 BHL-7 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

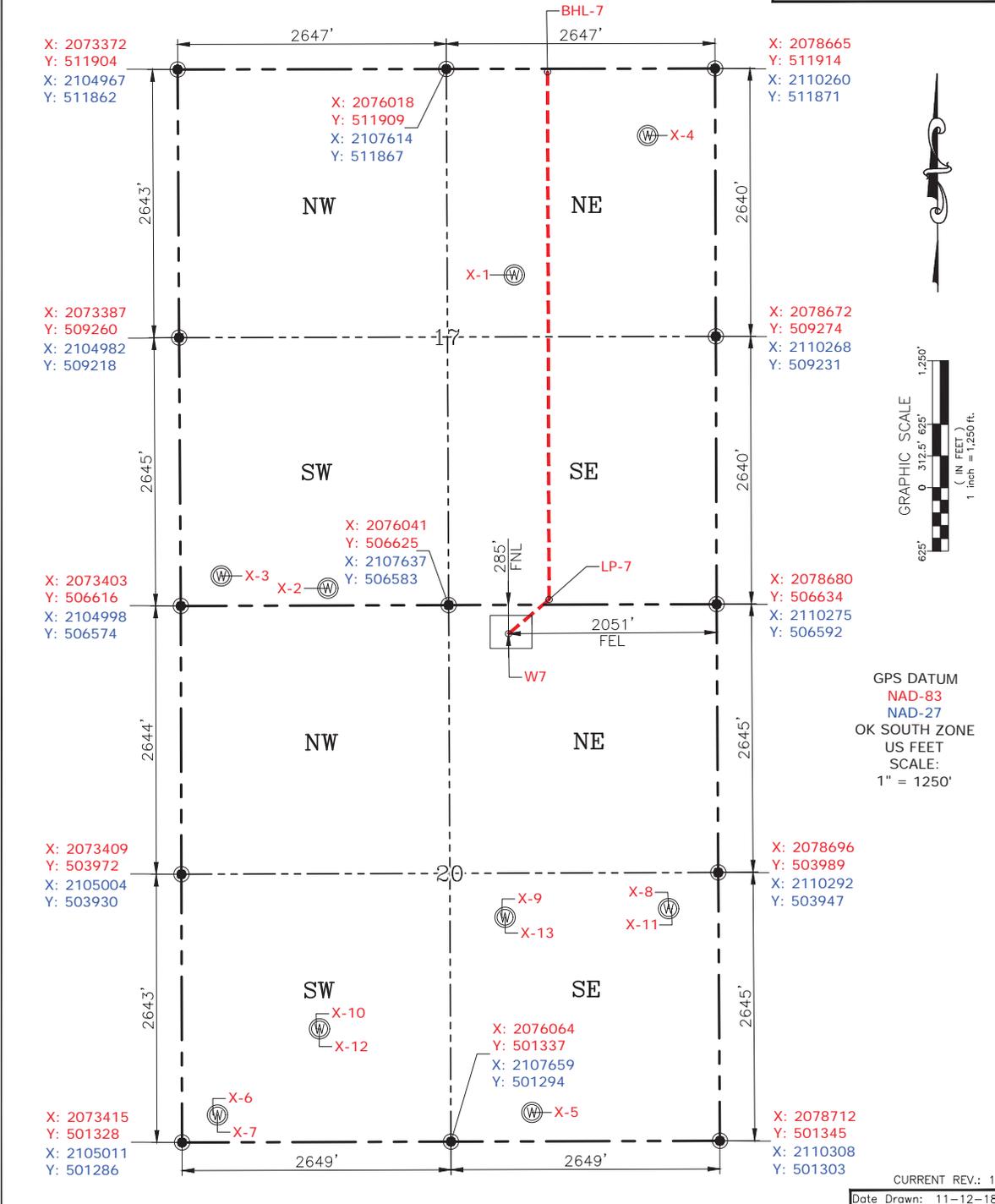


CONTINENTAL
 RESOURCES, INC
 (OPERATOR)

GARVIN

285' FNL-2051' FEL Section 20 Township 3N Range 4W I.M.

WELL: HINES 7-17HW



DATE Drawn: 11-12-18

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