

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

API NUMBER: 049 25172

Approval Date: 12/28/2017  
Expiration Date: 06/28/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 20 Twp: 3N Rge: 4W County: GARVIN  
SPOT LOCATION:  SE  NW  NW  SE FEET FROM QUARTER: FROM SOUTH FROM EAST  
SECTION LINES: 2206 2133

Lease Name: OMER Well No: 6-20-17XHS Well will be 2133 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

ANN & LYNN ROLEN  
P.O. BOX 874  
LINDSAY OK 73052

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

Name	Depth	Name	Depth
1 SPRINGER	11463	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 131585

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201707905  
201707906  
201707894  
201707896

Special Orders:

Total Depth: 18868 Ground Elevation: 1138 **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: ON SITE  
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: 2

Liner not required for Category: 2

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: 17-33620  
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: ON SITE
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: 3
Liner required for Category: 3
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: NW NE NW NE
Feet From: NORTH 1/4 Section Line: 50
Feet From: EAST 1/4 Section Line: 1760
Depth of Deviation: 11101
Radius of Turn: 382
Direction: 8
Total Length: 7167
Measured Total Depth: 18868
True Vertical Depth: 14218
End Point Location from Lease,
Unit, or Property Line: 50

Notes:

Table with 2 columns: Category, Description. Rows include DEEP SURFACE CASING, HYDRAULIC FRACTURING, MEMO, and PENDING CD - 201707894.

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 - 201707896	12/22/2017 - G57 - (I.O.) 20-3N-4W X131585 SPRG 10 WELLS CONTINENTAL RESOURCES, INC. REC 12-22-2017 (DENTON)
PENDING CD - 201707905	12/15/2017 - G57 - (I.O.) 20 & 17-3N-4W EST MULTIUNIT HORIZONTAL WELL X131585 SPRG 33.33% 20-3N-4W 66.67% 17-3N-4W CONTINENTAL RESOURCES, INC. REC 12-22-2017 (DENTON)
PENDING CD - 201707906	12/22/2017 - G57 - (I.O.) 20 & 17-3N-4W X131585 SPRG X165:10-3-28(C)(2)(B) COMPL. INT. (20-3N-4W) NCT 1320' FSL, NCT 0' FNL, NCT 1320' FEL COMPL. INT. (17-3N-4W) NCT 0' FSL, NCT 150' FNL, NCT 1320' FEL NO OP. NAMED REC 12-22-2017 (DENTON)
SPACING - 131585	12/15/2017 - G57 - (640) 20 & 17-3N-4W EST SPRG, 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: 8.5x14  
 SHL: 20-3N-4W  
 BHL-1: 17-3N-4W  
 BHL-2: 29-3N-4W



API: 049 25172

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 W1: OMER 6-20-17XHS  
 County GARVIN State OK Well W2: OMER 7-20-29XHS  
 Operator CONTINENTAL RESOURCES, INC.

**NAD-83**

POINT	NAME	NORTHING	EASTING	ELEVATION	LATITUDE LONGITUDE	LATITUDE LONGITUDE	DESIGN ELEVATION
W1	OMER 6-20-17XHS	503544	2076566	1141.17	N34°42'59.27" W97°38'25.42"	N34.716463° W97.640394°	2,206' FSL / 2,133' FEL (SE/4 SEC 20)
W2	OMER 7-20-29XHS	503547	2076596	1142.88	N34°42'59.30" W97°38'25.06"	N34.716472° W97.640295°	2,209' FSL / 2,103' FEL (SE/4 SEC 20)
LP-1	LANDING POINT	503903	2076937	--	N34°43'02.80" W97°38'20.96"	N34.717445° W97.639156°	2,563' FSL / 1,760' FEL (SE/4 SEC 20)
LP-2	LANDING POINT	503215	2076941	--	N34°42'56.00" W97°38'20.94"	N34.715556° W97.639149°	1,876' FSL / 1,760' FEL (SE/4 SEC 20)
BHL-1	BOTTOM HOLE LOCATION	511860	2076905	--	N34°44'21.52" W97°38'21.00"	N34.739311° W97.639166°	50' FNL / 1,760' FEL (NE/4 SEC 17)
BHL-2	BOTTOM HOLE LOCATION	496104	2076985	--	N34°41'45.66" W97°38'20.72"	N34.696016° W97.639088°	50' FSL / 1,760' FEL (SE/4 SEC 29)
X1	CUNNINGHAM RANCH	509879	2076687	--	N36°24'00.44" W97°37'56.59"	N36.400122° W97.632387°	17-3N-4W:S2SW4NE4   TD: 12,500'   610' FSL / 660' FWL
X2	HINES 1-17H	506791	2074852	--	N36°23'29.97" W97°38'19.18"	N36.391658° W97.638662°	17-3N-4W:SW4SW4SE4SW4   TD: 19,332'   170' FSL / 1,450' FWL
X3	OMER 1-17H	506912	2073801	--	N36°23'31.21" W97°38'32.03"	N36.392002° W97.642231°	17-3N-4W:SE4SW4SE4SW4   TD: 17,871'   295' FSL / 400' FWL
X4	PURDY HART SU NE	511252	2078001	--	N36°24'13.97" W97°37'40.45"	N36.403880° W97.627904°	17-3N-4W:NE4NE4   TD: 9,260'   1,980' FSL / 1,980' FWL
X5	LANG 1-20H	501624	2706861	--	N36°22'38.80" W97°37'54.85"	N36.377446° W97.631903°	20-3N-4W:SW4SE4SW4SE4   TD: 19,140'   285' FSL / 1,850' FWL
X6	WARDEN 1-20H	501599	2073719	--	N36°22'38.68" W97°38'33.27"	N36.377410° W97.642574°	20-3N-4W:SW4SW4SW4SW4   TD: 18,600'   270' FSL / 305' FWL
X7	MARIE GREGORY 1-29H	501599	2073764	--	N36°22'38.67" W97°38'32.72"	N36.377410° W97.642421°	20-3N-4W:SE4SW4SW4SW4   TD: 18,477'   270' FSL / 350' FWL
X8	BRAY 1-29H	497374	2077411	--	N36°21'56.76" W97°37'48.32"	N36.365767° W97.630090°	29-3N-4W:SE4   TD: 4,470'   1,320' FSL / 1,320' FWL
X9	VESTA MARIE 1-29H	500942	2074758	--	N36°22'32.14" W97°38'20.60"	N36.375595° W97.639055°	29-3N-4W:SW4NW4NE4NW4   TD: 19,050'   390' FNL / 1,340' FWL

**NAD-27**

POINT	NAME	NORTHING	EASTING	ELEVATION	LATITUDE LONGITUDE	LATITUDE LONGITUDE	DESIGN ELEVATION
W1	OMER 6-20-17XHS	503502	2108161	1141.17	N34°42'58.99" W97°38'24.31"	N34.716387° W97.640085°	2,206' FSL / 2,133' FEL (SE/4 SEC 20)
W2	OMER 7-20-29XHS	503505	2108191	1142.88	N34°42'59.02" W97°38'23.95"	N34.716395° W97.639986°	2,209' FSL / 2,103' FEL (SE/4 SEC 20)
LP-1	LANDING POINT	503861	2108532	--	N34°43'02.53" W97°38'19.85"	N34.717369° W97.638847°	2,563' FSL / 1,760' FEL (SE/4 SEC 20)
LP-2	LANDING POINT	503173	2108537	--	N34°42'55.73" W97°38'19.85"	N34.715480° W97.638840°	1,876' FSL / 1,760' FEL (SE/4 SEC 20)
BHL-1	BOTTOM HOLE LOCATION	511818	2108501	--	N34°44'21.25" W97°38'19.88"	N34.739235° W97.638857°	50' FNL / 1,760' FEL (NE/4 SEC 17)
BHL-2	BOTTOM HOLE LOCATION	496062	2108580	--	N34°41'45.38" W97°38'19.60"	N34.695939° W97.638779°	50' FSL / 1,760' FEL (SE/4 SEC 29)
X1	CUNNINGHAM RANCH	509853	2108287	--	N36°24'00.32" W97°37'55.41"	N36.400088° W97.632058°	17-3N-4W:S2SW4NE4   TD: 12,500'   610' FSL / 660' FWL
X2	HINES 1-17H	506765	2106451	--	N36°23'29.85" W97°38'18.00"	N36.391624° W97.638333°	17-3N-4W:SW4SW4SE4SW4   TD: 19,332'   170' FSL / 1,450' FWL
X3	OMER 1-17H	506887	2105400	--	N36°23'31.09" W97°38'30.85"	N36.391968° W97.641902°	17-3N-4W:SE4SW4SE4SW4   TD: 17,871'   295' FSL / 400' FWL
X4	PURDY HART SU NE	511227	2109601	--	N36°24'13.85" W97°37'39.27"	N36.403846° W97.627576°	17-3N-4W:NE4NE4   TD: 9,260'   1,980' FSL / 1,980' FWL
X5	LANG 1-20H	501599	2108460	--	N36°22'38.68" W97°37'53.67"	N36.377411° W97.631575°	20-3N-4W:SW4SE4SW4SE4   TD: 19,140'   285' FSL / 1,850' FWL
X6	WARDEN 1-20H	501574	2105319	--	N36°22'38.55" W97°38'32.08"	N36.377375° W97.642246°	20-3N-4W:SW4SW4SW4SW4   TD: 18,600'   270' FSL / 305' FWL
X7	MARIE GREGORY 1-29H	501574	2105364	--	N36°22'38.55" W97°38'31.53"	N36.377375° W97.642093°	20-3N-4W:SE4SW4SW4SW4   TD: 18,477'   270' FSL / 350' FWL
X8	BRAY 1-29H	497349	2109010	--	N36°21'56.64" W97°37'47.14"	N36.365732° W97.629761°	29-3N-4W:SE4   TD: 4,470'   1,320' FSL / 1,320' FWL
X9	VESTA MARIE 1-29H	500917	2106357	--	N36°22'32.02" W97°38'19.42"	N36.375561° W97.638727°	29-3N-4W:SW4NW4NE4NW4   TD: 19,050'   390' FNL / 1,340' FWL

Certificate of Authorization No. 7318

Date Staked: 12-06-17  
 Date Drawn: 12-06-17



Prepared By:  
 Petro Land Services South  
 10404 Vineyard Blvd.  
 Suite G100  
 Oklahoma City, OK 73120

REVISIONS

No.	DATE	BY	DESCRIPTION	COMMENTS
00	12-06-17	MJL	ISSUED FOR APPROVAL	--

EXHIBIT: A (2 of 3)  
 SHEET: 8.5x14  
 SHL: 20-3N-4W  
 BHL-1: 17-3N-4W

**PETRO LAND SERVICES SOUTH, LLC**

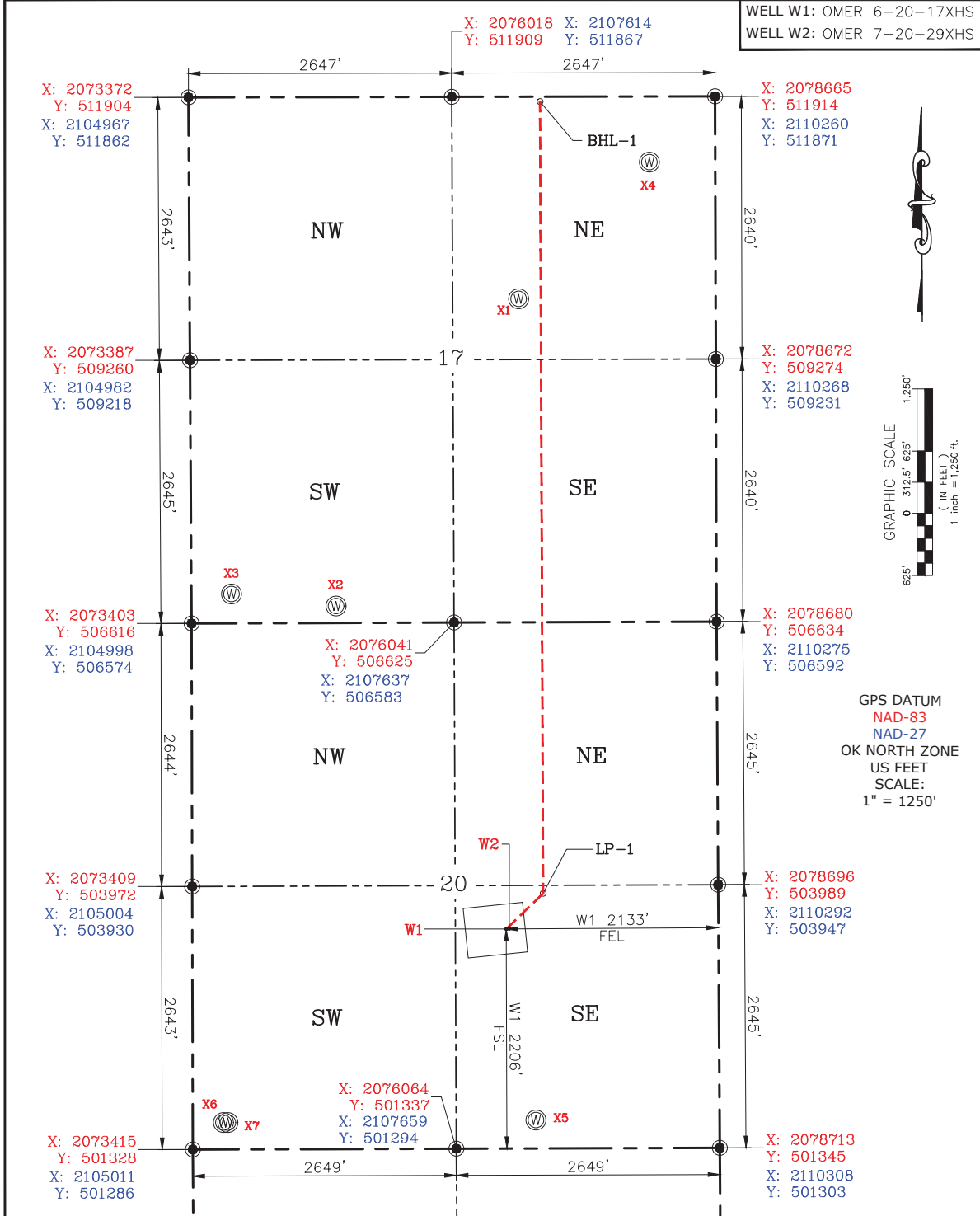
10404 VINEYARD BLVD. SUITE G100, OKLA. CITY, OKLA. 73120 \* OFFICE (405) 212-3108  
 Certificate of Authorization No. 7318



CONTINENTAL  
 RESOURCES, INC  
 (OPERATOR)

GARVIN \_\_\_\_\_ County Oklahoma  
 Section 20 Township 3N Range 4W I.M.

WELL W1: OMER 6-20-17XHS  
 WELL W2: OMER 7-20-29XHS



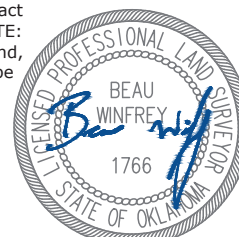
GPS DATUM  
 NAD-83  
 NAD-27  
 OK NORTH ZONE  
 US FEET  
 SCALE:  
 1" = 1250'

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.

Date Staked: 12-06-17  
 Date Drawn: 12-06-17

**CERTIFICATE:**

I, Beau Winfrey an Oklahoma Licensed Land Surveyor and an authorized agent of Petro Land Services South, LLC, do hereby certify to the information shown herein.



12/6/17

Oklahoma PLS No.1766 DATE

