

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

API NUMBER: 049 25174

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: SW NE NE SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 2289 461

Lease Name: OMER Well No: 3-20-29XHS Well will be 461 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	11650	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 131585

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201707900
201707899
201707896
201707895

Special Orders:

Total Depth: 19035 Ground Elevation: 1164 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

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: 17-33570
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 29 Twp 3N Rge 4W County GARVIN
Spot Location of End Point: S2 SE SE SE
Feet From: SOUTH 1/4 Section Line: 50
Feet From: EAST 1/4 Section Line: 330
Depth of Deviation: 11268
Radius of Turn: 382
Direction: 177
Total Length: 7167
Measured Total Depth: 19035
True Vertical Depth: 11650
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 - 201707895.

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	12/6/2017 - G57 - (I.O.) 20-3N-4W X131585 SPRG 10 WELLS CONTINENTAL RESOURCES, INC. REC 12-22-2017 (DENTON)
PENDING CD - 201707899	12/6/2017 - G57 - (I.O.) 20 & 29-3N-4W EST MULTIUNIT HORIZONTAL WELL X131585 SPRG 33.33% 20-3N-4W 66.67% 29-3N-4W CONTINENTAL RESOURCES, INC. REC 12-22-2017 (DENTON)
PENDING CD - 201707900	12/6/2017 - G57 - (I.O.) 20 & 29-3N-4W X131585 SPRG X165:10-3-28(C)(2)(B) COMPL. INT. (20-3N-4W) NCT 1320' FNL, NCT 0' FSL, NCT 330' FEL COMPL. INT. (29-3N-4W) NCT 0' FNL, NCT 150' FSL, NCT 330' FEL NO OP. NAMED REC 12-22-2017 (DENTON)
SPACING - 131585	12/6/2017 - 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: 8.5x11
 SHL: 20-3N-4W
 BHL-1: 17-3N-4W
 BHL-2: 29-3N-4W

API: 049 25174



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 2-20-17XHS
 County GARVIN State OK Well W2: OMER 3-20-29XHS
 Operator CONTINENTAL RESOURCES, INC.

NAD-83

POINT	NAME	NORTHING	EASTING	ELEVATION	LATITUDE LONGITUDE	LATITUDE LONGITUDE	DESIGN ELEVATION	
W1	OMER 2-20-17XHS	503633	2078207	1168.41	N34°43'00.09" W97°38'05.75"	N34.716691° W97.634931°	2,289' FSL / 491' FEL (SE/4 SEC 20)	1163.84
W2	OMER 3-20-29XHS	503633	2078237	1167.01	N34°43'00.09" W97°38'05.39"	N34.716691° W97.634831°	2,289' FSL / 461' FEL (SE/4 SEC 20)	1163.84
LP-1	LANDING POINT	504107	2078366	--	N34°43'04.77" W97°38'03.83"	N34.717992° W97.634398°	2,526' FNL / 330' FEL (SE/4 SEC 20)	--
LP-2	LANDING POINT	503151	2078371	--	N34°42'55.32" W97°38'03.80"	N34.715366° W97.634390°	1,807' FSL / 330' FEL (SE/4 SEC 20)	--
BHL-1	BOTTOM HOLE LOCATION	511863	2078335	--	N34°44'21.49" W97°38'03.86"	N34.739304° W97.634406°	50' FNL / 330' FEL (NE/4 SEC 17)	--
BHL-2	BOTTOM HOLE LOCATION	496105	2078415	--	N34°41'45.62" W97°38'03.59"	N34.696006° W97.634330°	50' FSL / 330' 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:SW4NE4 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 2-20-17XHS	503591	2109803	1168.41	N34°42'59.81" W97°38'04.64"	N34.716614° W97.634822°	2,289' FSL / 491' FEL (SE/4 SEC 20)	1163.84
W2	OMER 3-20-29XHS	503591	2109833	1167.01	N34°42'59.81" W97°38'04.28"	N34.716614° W97.634522°	2,289' FSL / 461' FEL (SE/4 SEC 20)	1163.84
LP-1	LANDING POINT	504065	2109961	--	N34°43'04.50" W97°38'02.72"	N34.717916° W97.634089°	2,526' FNL / 330' FEL (SE/4 SEC 20)	--
LP-2	LANDING POINT	503109	2109967	--	N34°42'55.04" W97°38'02.69"	N34.715289° W97.634081°	1,807' FSL / 330' FEL (SE/4 SEC 20)	--
BHL-1	BOTTOM HOLE LOCATION	511821	2109931	--	N34°44'21.22" W97°38'02.75"	N34.739228° W97.634097°	50' FNL / 330' FEL (NE/4 SEC 17)	--
BHL-2	BOTTOM HOLE LOCATION	496063	2110010	--	N34°41'45.34" W97°38'02.48"	N34.695929° W97.634021°	50' FSL / 330' 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°38'18.42"	N36.375561° W97.638727°	29-3N-4W:SW4NW4NE4NW4 TD: 19,050' 390' FNL / 1,340' FWL	--

Certificate of Authorization No. 7318

Date Staked: N/A
 Date Drawn: 11-30-17



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

REVISIONS

No.	DATE	BY	DESCRIPTION	COMMENTS
00	11-30-2017	MJL	ISSUED FOR APPROVAL	--

EXHIBIT: A (3 of 3)
 SHEET: 8.5x14
 SHL: 20-3N-4W
 BHL-2: 29-3N-4W

PETRO LAND SERVICES SOUTH, LLC

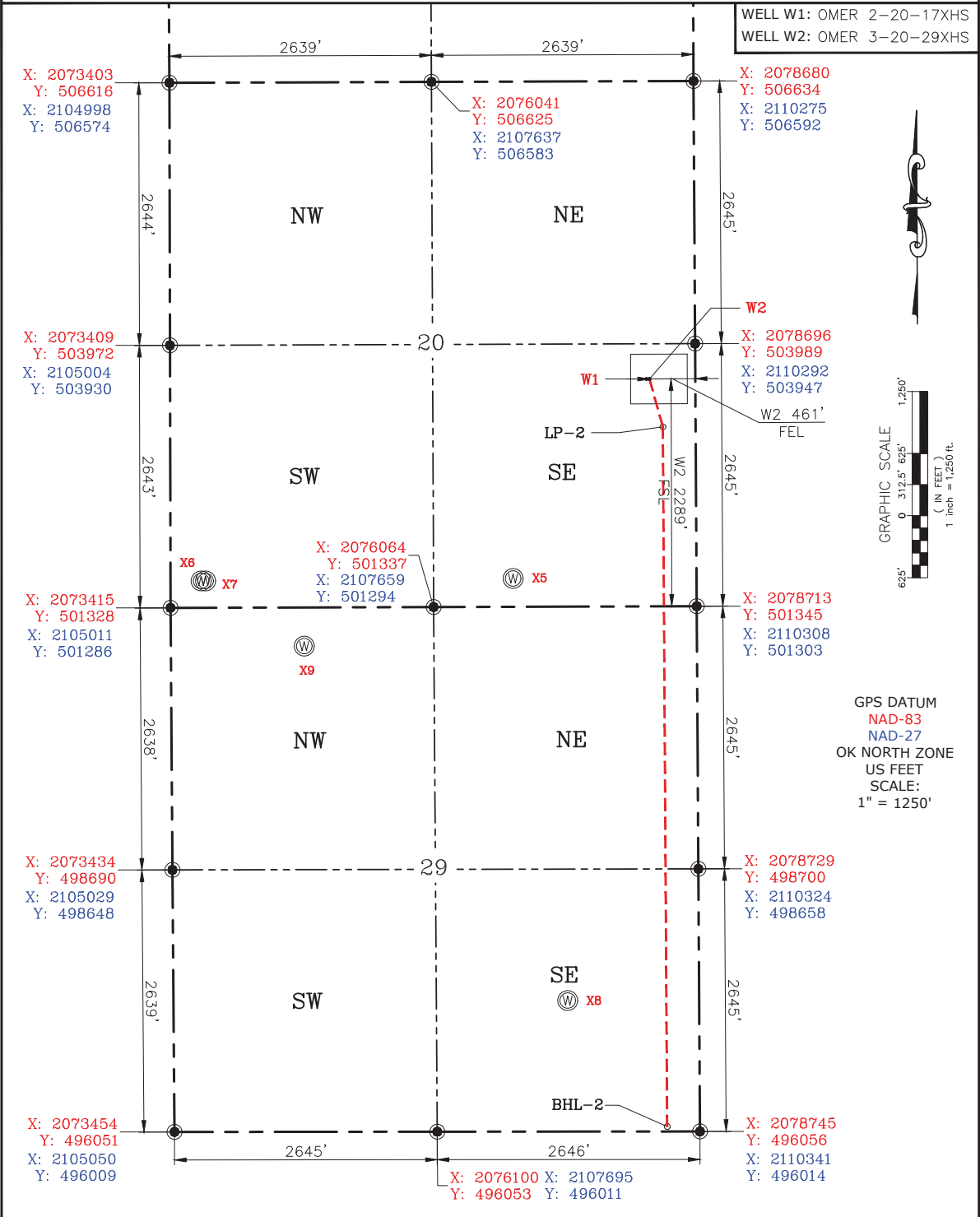
10404 VINEYARD BLVD. SUITE G100, OKLA. CITY, OKLA. 73120 * OFFICE (405) 212-3108
 Certificate of Authorization No. 7318



CONTINENTAL
 RESOURCES, INC
 (OPERATOR)

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

WELL W1: OMER 2-20-17XHS
 WELL W2: OMER 3-20-29XHS

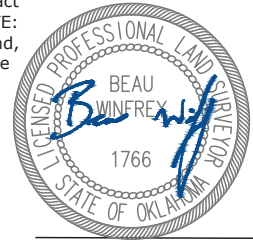


GPS DATUM
 NAD-83
 NAD-27
 OK NORTH ZONE
 US FEET
 SCALE:
 1" = 1250'

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: N/A
 Date Drawn: 11-30-17

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.



12/1/17

Oklahoma PLS No.1766 DATE