

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

API NUMBER: 049 25173

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: NW NW SE SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 1116 1327

Lease Name: OMER

Well No: 4-20-17XHS

Well will be 1116 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 SPRINGER	11518	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 131585

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201707910
201707909
201707894
201707896

Special Orders:

Total Depth: 18913

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

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: 17-33642

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: DUCAN

HORIZONTAL HOLE 1

Sec 17 Twp 3N Rge 4W County GARVIN
Spot Location of End Point: NW NE NE NW
Feet From: NORTH 1/4 Section Line: 30
Feet From: WEST 1/4 Section Line: 2090
Depth of Deviation: 11146
Radius of Turn: 382
Direction: 15
Total Length: 7167
Measured Total Depth: 18913
True Vertical Depth: 14273
End Point Location from Lease,
Unit, or Property Line: 30

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 - 201707909	12/22/2017 - 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 - 201707910	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' FWL COMPL. INT. (17-3N-4W) NCT 0' FSL, NCT 150' FNL, NCT 1320' FWL NO OP. NAMED REC 12-22-2017 (DENTON)
SPACING - 131585	12/21/2017 - 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



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 4-20-17XHS
 County GARVIN State OK Well W2: OMER 5-20-29XHS
 Operator CONTINENTAL RESOURCES, INC.

NAD-83

POINT	NAME	NORTHING	EASTING	ELEVATION	LATITUDE LONGITUDE	LATITUDE LONGITUDE	DESIGN ELEVATION
W1	OMER 4-20-17XHS	502448	2074739	1156.44	34°42'48.49" -97°38'47.34"	34.713470° -97.646484°	1,116' FSL / 1,327' FWL (SW/4 SEC 20) 1147.45
W2	OMER 5-20-29XHS	502448	2074769	1155.04	34°42'48.49" -97°38'46.98"	34.713470° -97.646384°	1,116' FSL / 1,357' FWL (SW/4 SEC 20) 1147.45
LP-1	LANDING POINT	503178	2075501	--	34°42'55.68" -97°38'38.19"	34.715468° -97.643942°	1,843' FSL / 2,090' FWL (SW/4 SEC 20) --
LP-2	LANDING POINT	501750	2075504	--	34°42'41.56" -97°38'38.21"	34.711544° -97.643948°	415' FSL / 2,090' FWL (SW/4 SEC 20) --
BHL-1	BOTTOM HOLE LOCATION	511878	2075462	--	34°44'21.74" -97°38'38.29"	34.739372° -97.643970°	30' FNL / 2,090' FWL (NW/4 SEC 17) --
BHL-2	BOTTOM HOLE LOCATION	496083	2075544	--	34°41'45.50" -97°38'37.97"	34.695972° -97.643881°	30' FSL / 2,090' FWL (SW/4 SEC 29) --
X1	CUNNINGHAM RANCH	509879	2076687	--	36°24'00.44" -97°37'56.59"	36.400122° -97.632387°	17-3N-4W:S2SW4NE4 TD: 12,500' 610' FSL / 660' FWL --
X2	HINES 1-17H	506791	2074852	--	36°23'29.97" -97°38'19.18"	36.391658° -97.638662°	17-3N-4W:SW4SW4SE4SW4 TD: 19,332' 170' FSL / 1,450' FWL --
X3	OMER 1-17H	506912	2073801	--	36°23'31.21" -97°38'32.03"	36.392002° -97.642231°	17-3N-4W:SE4SW4SE4SW4 TD: 17,871' 295' FSL / 400' FWL --
X4	PURDY HART SU NE	511252	2078001	--	36°24'13.97" -97°37'40.45"	36.403880° -97.627904°	17-3N-4W:NE4NE4 TD: 9,260' 1,980' FSL / 1,980' FWL --
X5	LANG 1-20H	501624	2706861	--	36°22'38.80" -97°37'54.85"	36.377446° -97.631903°	20-3N-4W:SW4SE4SW4SE4 TD: 19,140' 285' FSL / 1,850' FWL --
X6	WARDEN 1-20H	501599	2073719	--	36°22'38.68" -97°38'33.27"	36.377410° -97.642574°	20-3N-4W:SW4SW4SW4SW4 TD: 18,600' 270' FSL / 305' FWL --
X7	MARIE GREGORY 1-29H	501599	2073764	--	36°22'38.67" -97°38'32.72"	36.377410° -97.642421°	20-3N-4W:SE4SW4SW4SW4 TD: 18,477' 270' FSL / 350' FWL --
X8	BRAY 1-29H	497374	2077411	--	36°21'56.76" -97°37'48.32"	36.365767° -97.630090°	29-3N-4W:SE4 TD: 4,470' 1,320' FSL / 1,320' FWL --
X9	VESTA MARIE 1-29H	500942	2074758	--	36°22'32.14" -97°38'20.60"	36.375595° -97.639055°	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 4-20-17XHS	502406	2106335	1156.44	34°42'48.22" -97°38'46.23"	34.713393° -97.646175°	1,116' FSL / 1,327' FWL (SW/4 SEC 20) 1147.45
W2	OMER 5-20-29XHS	502406	2106365	1155.04	34°42'48.22" -97°38'45.87"	34.713393° -97.646075°	1,116' FSL / 1,357' FWL (SW/4 SEC 20) 1147.45
LP-1	LANDING POINT	503136	2107096	--	34°42'55.41" -97°38'37.08"	34.715391° -97.643633°	1,843' FSL / 2,090' FWL (SW/4 SEC 20) --
LP-2	LANDING POINT	501708	2107100	--	34°42'41.28" -97°38'37.10"	34.711467° -97.643639°	415' FSL / 2,090' FWL (SW/4 SEC 20) --
BHL-1	BOTTOM HOLE LOCATION	511836	2107057	--	34°44'21.47" -97°38'37.18"	34.739296° -97.643660°	30' FNL / 2,090' FWL (NW/4 SEC 17) --
BHL-2	BOTTOM HOLE LOCATION	496041	2107140	--	34°41'45.22" -97°38'36.86"	34.695895° -97.643572°	30' FSL / 2,090' FWL (SW/4 SEC 29) --
X1	CUNNINGHAM RANCH	509853	2108287	--	36°24'00.32" -97°37'55.41"	36.400088° -97.632058°	17-3N-4W:S2SW4NE4 TD: 12,500' 610' FSL / 660' FWL --
X2	HINES 1-17H	506765	2106451	--	36°23'29.85" -97°38'18.00"	36.391624° -97.638333°	17-3N-4W:SW4SW4SE4SW4 TD: 19,332' 170' FSL / 1,450' FWL --
X3	OMER 1-17H	506887	2105400	--	36°23'31.09" -97°38'30.85"	36.391968° -97.641902°	17-3N-4W:SE4SW4SE4SW4 TD: 17,871' 295' FSL / 400' FWL --
X4	PURDY HART SU NE	511227	2109601	--	36°24'13.85" -97°37'39.27"	36.403846° -97.627576°	17-3N-4W:NE4NE4 TD: 9,260' 1,980' FSL / 1,980' FWL --
X5	LANG 1-20H	501599	2108460	--	36°22'38.68" -97°37'53.67"	36.377411° -97.631575°	20-3N-4W:SW4SE4SW4SE4 TD: 19,140' 285' FSL / 1,850' FWL --
X6	WARDEN 1-20H	501574	2105319	--	36°22'38.55" -97°38'32.08"	36.377375° -97.642246°	20-3N-4W:SW4SW4SW4SW4 TD: 18,600' 270' FSL / 305' FWL --
X7	MARIE GREGORY 1-29H	501574	2105364	--	36°22'38.55" -97°38'31.53"	36.377375° -97.642093°	20-3N-4W:SE4SW4SW4SW4 TD: 18,477' 270' FSL / 350' FWL --
X8	BRAY 1-29H	497349	2109010	--	36°21'56.64" -97°37'47.14"	36.365732° -97.629761°	29-3N-4W:SE4 TD: 4,470' 1,320' FSL / 1,320' FWL --
X9	VESTA MARIE 1-29H	500917	2106357	--	36°22'32.02" -97°38'19.42"	36.375561° -97.638727°	29-3N-4W:SW4NW4NE4NW4 TD: 19,050' 390' FNL / 1,340' FWL --

Certificate of Authorization No. 7318

Date Staked: 12-15-17
 Date Drawn: 12-15-17



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

REVISIONS

No.	DATE	BY	DESCRIPTION	COMMENTS
00	12-15-2017	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



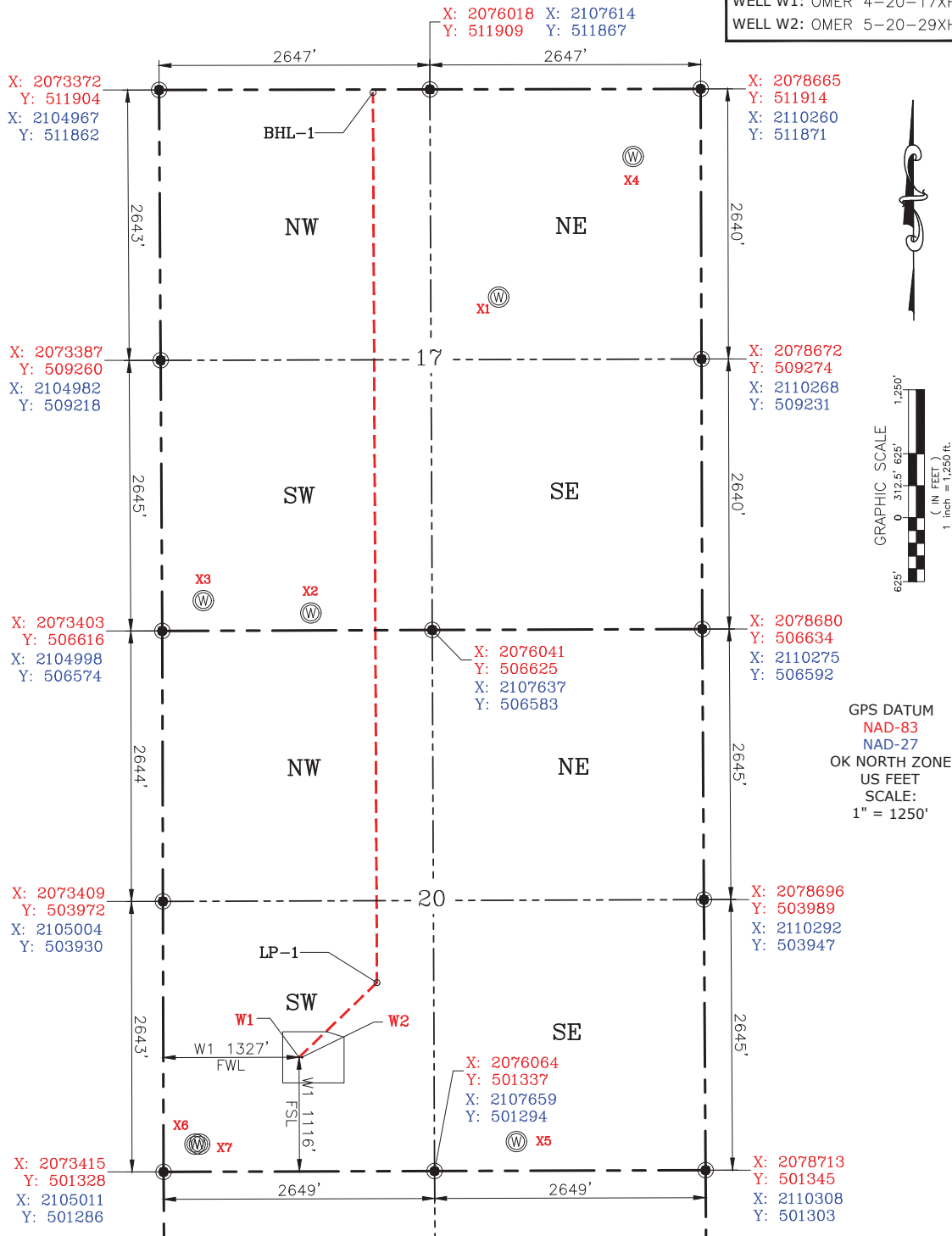
CONTINENTAL
 RESOURCES, INC
 (OPERATOR)

GARVIN

County Oklahoma

Section 20 Township 3N Range 4W I.M.

WELL W1: OMER 4-20-17XHS
 WELL W2: OMER 5-20-29XHS

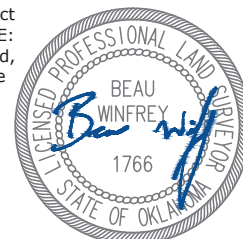


Please note that this location was staked on the ground under the supervision of a Licensed Professional Land Surveyor, but the accuracy of this survey is not guaranteed. Please contact PLS promptly if any inconsistency is determined. GPS data is observed from RTK-GPS. NOTE: X and Y data shown hereon 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: 12-15-17
 Date Drawn: 12-15-17

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.



12/15/17

Oklahoma PLS No.1766 DATE

PETRO LAND SERVICES SOUTH, LLC

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



EXHIBIT: A (3 of 3)

SHEET: 8.5x14

SHL: 20-3N-4W

BHL-2: 29-3N-4W

GARVIN

County Oklahoma

1,116' FSL-1,357' FWL Section 20 Township 3N Range 4W I.M.

CONTINENTAL RESOURCES, INC (OPERATOR)

WELL W1: OMER 4-20-17XHS
WELL W2: OMER 5-20-29XHS

X: 2073403
Y: 506616
X: 2104998
Y: 506574

X: 2076041
Y: 506625
X: 2107637
Y: 506583

X: 2078680
Y: 506634
X: 2110275
Y: 506592

X: 2073409
Y: 503972
X: 2105004
Y: 503930

X: 2076064
Y: 501337
X: 2107659
Y: 501294

X: 2078696
Y: 503989
X: 2110292
Y: 503947

X: 2073415
Y: 501328
X: 2105011
Y: 501286

X: 2078713
Y: 501345
X: 2110308
Y: 501303

X: 2073434
Y: 498690
X: 2105029
Y: 498648

X: 2078729
Y: 498700
X: 2110324
Y: 498658

X: 2073454
Y: 496051
X: 2105050
Y: 496009

X: 2076100 X: 2107695
Y: 496053 Y: 496011

X: 2078745
Y: 496056
X: 2110341
Y: 496014



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

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12/15/17

Oklahoma PLS No.1766 DATE