

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 A

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

Horizontal Hole Oil & Gas

Amend reason: AMEND LOC. EXP. & MULTI-UNIT CAUSE CD
NUMBERS

AMEND 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: 201707894
201707896
201800057
201800058

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

Approved Method for disposal of Drilling Fluids:

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

D. One time land application -- (REQUIRES PERMIT)
H. SEE MEMO

PERMIT NO: 17-33642

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:

Category

Description

DEEP SURFACE CASING

12/19/2017 - 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

12/19/2017 - 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

MEMO

12/19/2017 - G71 - PITS 1 & 2 - CONCRETE LINED PIT PER OPERATOR REQUEST, PIT 1 – WBM/CUTTINGS WILL BE SOIL FARMED, PIT 2 – OBM RETURNED TO VENDOR, CUTTINGS WILL BE HAULED TO PAULS VALLEY LANDFILL (GARVIN) 3525009 OR SOUTHERN PLAINS LANDFILL (GRADY) 3526013

PENDING CD - 201707894

12/22/2017 - G57 - (I.O.) 17-3N-4W
X131585 SPRG
5 WELLS
CONTINENTAL RESOURCES, INC
REC 12-22-2017 (DENTON)

This permit does not address the right of entry or settlement of surface damages.

049 25173 OMER 4-20-17XHS

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 - 201800057	2/14/2018 - G57 - (I.O.) 20 & 17-3N-4W EST MULTIUNIT HORIZONTAL WELL X131585 SPRG 45% 20-3N-4W 55% 17-3N-4W CONTINENTAL RESOURCES, INC. REC 2-6-2018 (JACKSON)
PENDING CD - 201800058	2/14/2018 - G57 - (I.O.) 20 & 17-3N-4W X131585 SPRG X165:10-3-28(C)(2)(B) COMPL. INT. (20-3N-4W) NCT 900' 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 2-2-2018 (JACKSON)
SPACING - 131585	12/21/2017 - G57 - (640) 20 & 17-3N-4W EST SPRG, OTHERS

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.
 County GARVIN State OK
 Operator CONTINENTAL RESOURCES, INC.

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

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)
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)
LP-1	LANDING POINT	502449	2075423	--	34°42'48.48" -97°38'59.15"	34.713466° -97.644210°	1,114' FSL / 2,010' 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' FEL
X6	WARDEN 1-20H	501599	2073719	--	36°22'38.68" -97°38'53.27"	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)
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)
LP-1	LANDING POINT	502406	2107018	--	34°42'48.20" -97°38'38.04"	34.713389° -97.643900°	1,114' FSL / 2,010' 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' FEL
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	--
01	01-17-18	MJL	REV. DATUM CALL-OUT	EXHIBIT A (SHEETS 2&3 OF 3) AND B
02	02-14-18	TJW	REV. LANDING POINT 1	EXHIBIT A (SHEETS 1&2 OF 3)

EXHIBIT: A (2 of 3)

SHEET: 8.5x14

SHL: 20-3N-4W

BHL-1: 17-3N-4W

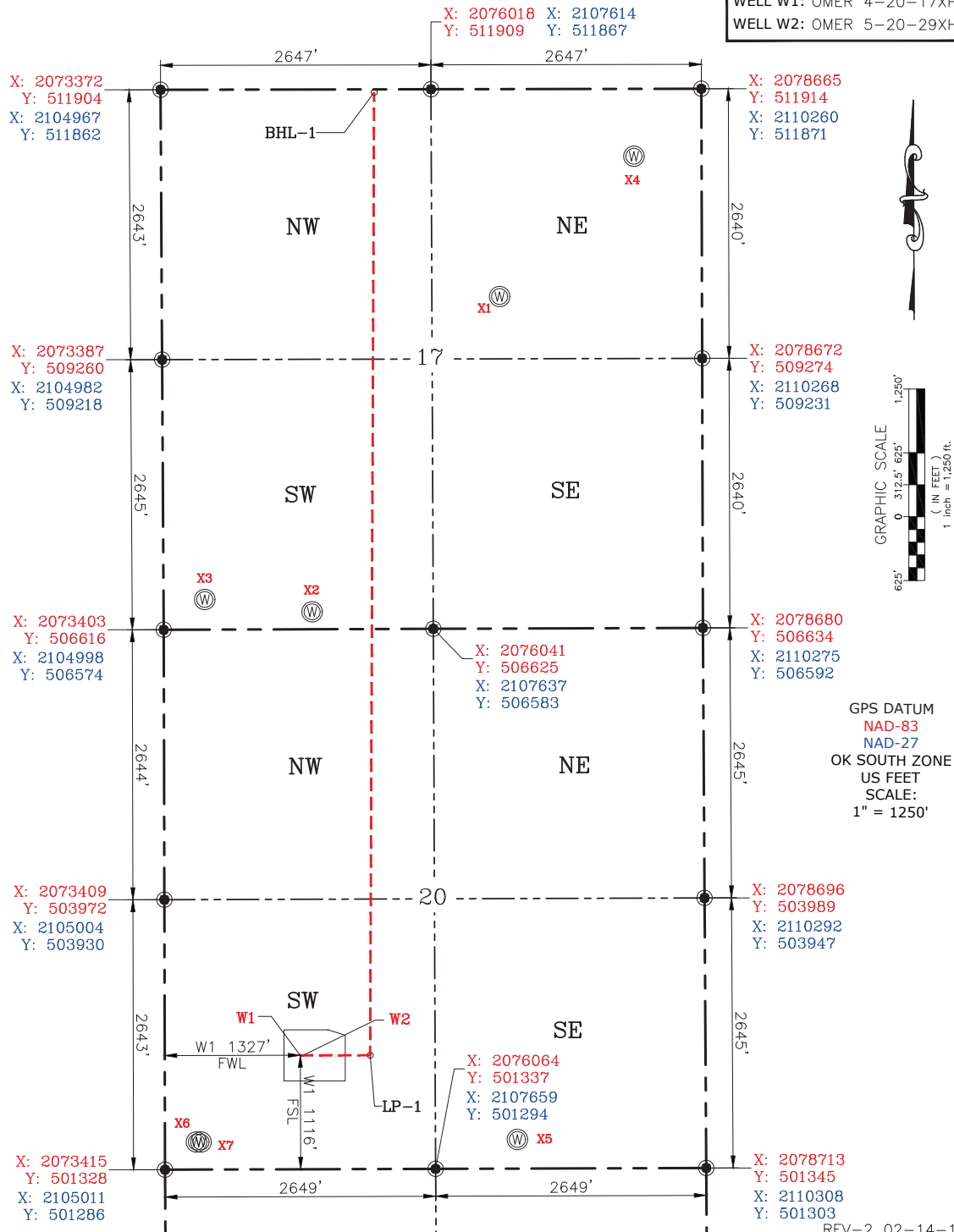
PETRO LAND SERVICES SOUTH, LLC

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

GARVIN

County Oklahoma

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

CONTINENTAL
RESOURCES, INC.
(OPERATOR)WELL W1: OMER 4-20-17XHS
WELL W2: OMER 5-20-29XHS

REV-2 02-14-18

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

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