

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

API NUMBER: 051 24393 B

Approval Date: 06/21/2018

Expiration Date: 12/21/2018

Horizontal Hole
Oil & Gas
Multi Unit

Amend reason: OCC CORRECTION TO CORRECT WELL NUMBER

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 20 Twp: 7N Rge: 6W

County: GRADY

SPOT LOCATION: SW NE NW NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 350 1687

Lease Name: SCHOOF

Well No: 4-20-17-8XHS

Well will be 350 feet from nearest unit or lease boundary.

Operator CONTINENTAL RESOURCES INC
Name:

Telephone: 4052349020; 4052349

OTC/OCC Number: 3186 0

CONTINENTAL RESOURCES INC
PO BOX 268870
OKLAHOMA CITY, OK 73126-9000

J W & MARIBETH SMITH, CO-TRUSTEES
2155 COUNTY STREET 2890
CHICKASHA OK 73018

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

Name	Depth	Name	Depth
1 SPRINGER	12391	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 164772
172459
136547

Location Exception Orders:

Increased Density Orders: 688350
687134
684072

Pending CD Numbers: 201808938
201808939

Special Orders:

Total Depth: 23298 Ground Elevation: 1094

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 550

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: 18-34594

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 08 Twp 7N Rge 6W County GRADY

Spot Location of End Point: N2 N2 NE NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 660

Depth of Deviation: 11681

Radius of Turn: 477

Direction: 5

Total Length: 10868

Measured Total Depth: 23298

True Vertical Depth: 12391

End Point Location from Lease,
Unit, or Property Line: 50

Notes:

Category

Description

DEEP SURFACE CASING

6/5/2018 - 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

6/5/2018 - 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 - 681734

1/15/2019 - G58 - 8-7N-6W
X172459 SPRG
2 WELLS
CONTINENTAL RESOURCES, INC.
REC 8/20/2018

INCREASED DENSITY - 684072

1/15/2019 - G58 - 17-7N-6W
X164772 SPRG
3 WELLS
CONTINENTAL RESOURCES, INC.
10/1/2018

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.

051 24393 SCHOOF 4-20-17-8XHS

Category	Description
INCREASED DENSITY - 688350	1/15/2019 - G58 - 20-7N-6W X136547 SPRG 5 WELLS CONTINENTAL RESOURCES, INC. 12/14/2018
MEMO	6/5/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 201803466	6/21/2018 - G58 - 17-7N-6W X164772 SPRG 3 WELLS NO OP. NAMED REC 5/21/2018 (NORRIS)
PENDING CD - 201808938	1/15/2019 - G58 - (I.O.) 8, 17, & 20-7N-6W EST MULTIUNIT HORIZONTAL WELL X164772 SPRG 17-7N-6W X172459 SPRG 8-7N-6W X136547 SPRG 20-7N-6W 63% 17-7N-6W 33% 8-7N-6W 4% 20-7N-6W NO OP. NAMED REC 11/19/2018 (DENTON)
PENDING CD - 201808939	1/15/2019 - G58 - (I.O.) 8, 17, & 20-7N-6W X164772 SPRG 17-7N-6W X172459 SPRG 8-7N-6W X136547 SPRG 20-7N-6W X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO PROPOSED WELL COMPL. INT. 20-7N-6W NCT 1320' FNL, NCT 0' FNL, NCT 660' FWL COMPL. INT. 17-7N-6W NCT 0' FSL, NCT 0' FNL, NCT 660' FWL COMPL. INT. 8-7N-6W NCT 0' FSL, NCT 150' FNL, NCT 660' FWL NO OP. NAMED REC 11/19/2018 (DENTON)
SPACING - 136547	1/15/2019 - G58 - (640) 20-7N-6W EXT OTHER EST SPRG, OTHERS
SPACING - 164772	6/21/2018 - G58 - (640) 17-7N-6W EST OTHERS EXT OTHERS EXT 136547 SPRG
SPACING - 172459	6/21/2018 - G58 - (640) 8-7N-6W EXT OTHERS EXT 75509 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 2)
SHEET: 8.5x11
SHL: 20-7N-6W
BHL-4 8-7N-6W



051-24393

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 7N Range 6W I.M.

Well: SCHOOF 4-20-17-8XHS

County GRADY State OK

Well: --

Operator CONTINENTAL RESOURCES, INC.

NAD-83

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W4	SCHOOF 4-20-17-8XHS	632825	2012665	35° 04' 19.62" -97° 51' 08.65"	35.072117 -97.852404	350' FNL / 1687' FEL (NE/4 SEC 20)	1093.69'	1094.43'
LP-4	LANDING POINT	632824	2012372	35° 04' 19.61" -97° 51' 12.18"	35.072115 -97.853384	350' FNL / 1980' FEL (NE/4 SEC 20)	--	--
BHL-4	BOTTOM HOLE LOCATION	643692	2013645	35° 06' 07.09" -97° 50' 58.68"	35.101970 -97.849077	50' FNL / 660' FEL (NE/4 SEC 8)	--	--
X-1	BETTY JEAN #1-8-SXH	638721	2011159	35° 05' 17.95" -97° 51' 26.68"	35.088320 -97.857410	8-7N-6W:SW4SE4SE4SW4 TD: 23,525' 265' FSL / 2,110' FWL	--	--
X-2	BALLARD #17-1	637136	2013017	35° 05' 02.26" -97° 51' 04.35"	35.083960 -97.851208	17-7N-6W:NE4 TD: 15,070' 1,320' FSL OF 1/4 SEC. / 1,320' FWL OF 1/4 SEC.	--	--
X-3	BALLARD #1-17H	633378	2013611	35° 04' 25.07" -97° 50' 57.27"	35.073631 -97.849242	17-7N-6W:SE4SW4SE4SE4 TD: 18,460' 200' FSL / 740' FEL	--	--
X-4	SCHOOF #1-17H	633424	2014000	35° 04' 25.52" -97° 50' 52.58"	35.073756 -97.847939	17-7N-6W:SW4SE4SE4SE4 TD: 17,265' 245' FSL / 350' FEL	--	--

NAD-27

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W4	SCHOOF 4-20-17-8XHS	632783	2044262	35° 04' 19.38" -97° 51' 07.50"	35.072051 -97.852084	350' FNL / 1687' FEL (NE/4 SEC 20)	1093.69'	1094.43'
LP-4	LANDING POINT	632782	2043969	35° 04' 19.38" -97° 51' 11.03"	35.072050 -97.853064	350' FNL / 1980' FEL (NE/4 SEC 20)	--	--
BHL-4	BOTTOM HOLE LOCATION	643650	2045241	35° 06' 06.86" -97° 50' 55.52"	35.101905 -97.848756	50' FNL / 660' FEL (NE/4 SEC 8)	--	--
X-1	BETTY JEAN #1-8-SXH	638679	2042756	35° 05' 17.72" -97° 51' 25.52"	35.088255 -97.857090	8-7N-6W:SW4SE4SE4SW4 TD: 23,525' 265' FSL / 2,110' FWL	--	--
X-2	BALLARD #17-1	637095	2044613	35° 05' 02.02" -97° 51' 03.20"	35.083895 -97.850888	17-7N-6W:NE4 TD: 15,070' 1,320' FSL OF 1/4 SEC. / 1,320' FWL OF 1/4 SEC.	--	--
X-3	BALLARD #1-17H	633336	2045207	35° 04' 24.83" -97° 50' 56.12"	35.073565 -97.848922	17-7N-6W:SE4SW4SE4SE4 TD: 18,460' 200' FSL / 740' FEL	--	--
X-4	SCHOOF #1-17H	633382	2045597	35° 04' 25.28" -97° 50' 51.43"	35.073690 -97.847619	17-7N-6W:SW4SE4SE4SE4 TD: 17,265' 245' FSL / 350' FEL	--	--

REVISIONS

No.	DATE	BY	DESCRIPTION	COMMENTS
00	05-23-18	TJW	ISSUED FOR APPROVAL	--
01	05-24-18	TJW	REV'D ACCESS ROAD	REV'D EXHIBITS B, F, G, H, & I
02	05-24-18	TJW	REV'D LANDING POINT	REV'D EXHIBITS A1 & A2
03	07-10-18	TJW	REMOVED FLOWBACK POND	REV'D EXHIBITS A1, F, H & I
04	11-20-18	HOG	REV'D WELL NAME, LP & BHL	REV'D ALL SHEETS

Certificate of Authorization No. 7318

Date Staked: 05-23-18
Date Drawn: 05-23-18



Prepared By:
Petro Land Services South
10400 Vineyard Blvd.
Suite C
Oklahoma City, OK 73120

EXHIBIT: A (2 of 2)
SHEET: 8.5x14
SHL: 20-7N-6W
BHL-4 8-7N-6W

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)

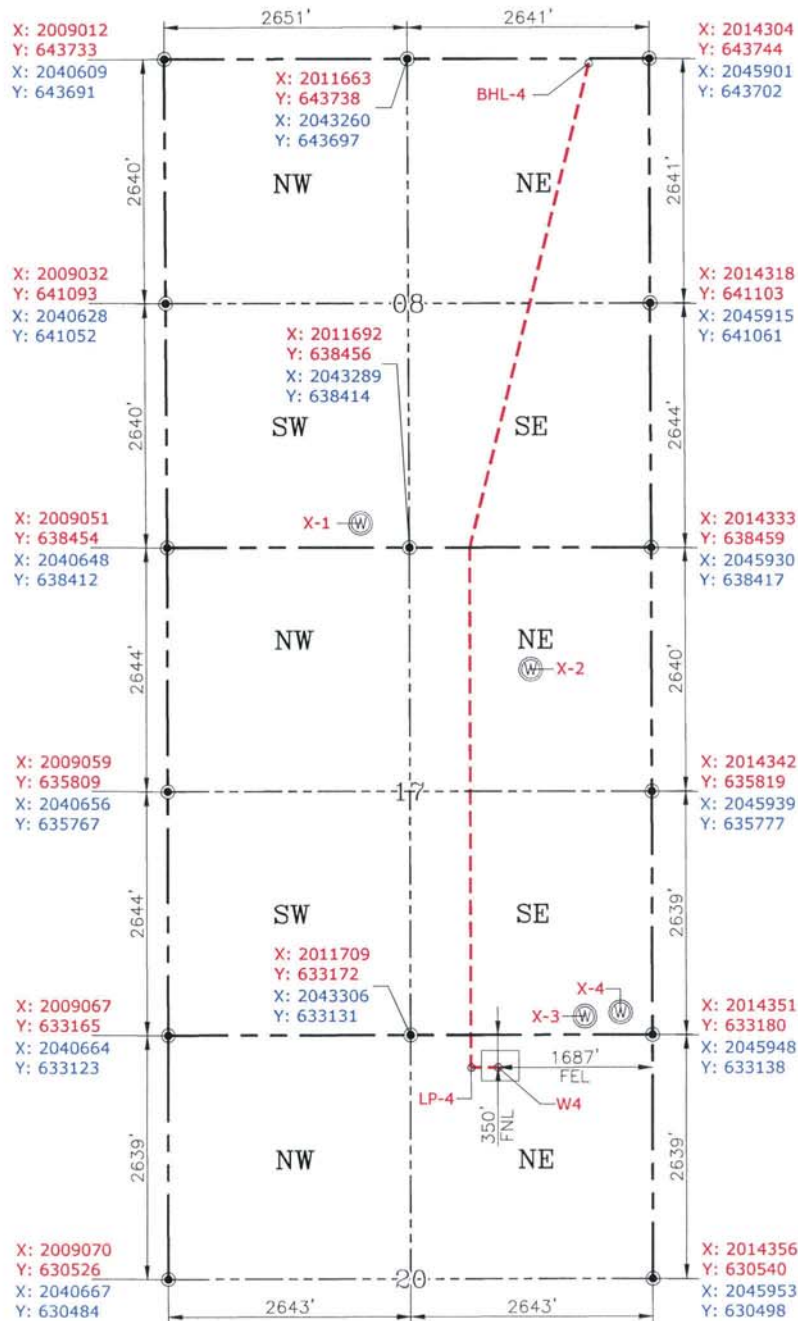
GRADY

County Oklahoma

350' FNL-1687' FEL Section 20 Township 7N Range 6W I.M.

WELL: SCHOOF
4-20-17-8XHS

051-24393



GPS DATUM
NAD-83
NAD-27
OK SOUTH ZONE
US FEET
SCALE:
1" = 1600'

CURRENT REV.: 4

Date Drawn: 05-23-18

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