

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

API NUMBER: 051 24392

Approval Date: 06/21/2018

Expiration Date: 12/21/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

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

County: GRADY

SPOT LOCATION: ☐ NE ☐ NW ☐ NE ☐ NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 278 1906

Lease Name: SCHOOF

Well No: 3-17-8-5XHS

Well will be 278 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

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	12453	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 164772
172459
578776

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201803471
201803472
201803467
201803466
201803468

Special Orders:

Total Depth: 25538

Ground Elevation: 1136

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 not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: CHICKASHA

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 18-34595

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 not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: CHICKASHA

HORIZONTAL HOLE 1

Sec 05 Twp 7N Rge 6W County GRADY

Spot Location of End Point: N2 N2 NE SW

Feet From: SOUTH 1/4 Section Line: 2500

Feet From: WEST 1/4 Section Line: 1980

Depth of Deviation: 11773

Radius of Turn: 477

Direction: 1

Total Length: 13016

Measured Total Depth: 25538

True Vertical Depth: 12453

End Point Location from Lease,
Unit, or Property Line: 1980

Notes:

Category

Description

COMPLETION INTERVAL

6/21/2018 - G58 - WILL BE LEGAL PER OP.

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: OCCWEB.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

6/5/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

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 24392 SCHOOF 3-17-8-5XHS

Category	Description
PENDING CD - 201803466	6/21/2018 - G58 - 17-7N-6W X164772 SPRG 3 WELLS NO OP. NAMED REC 5/21/2018 (NORRIS)
PENDING CD - 201803467	6/21/2018 - G58 - 5-7N-6W X578776 SPRG 2 WELLS NO OP. NAMED REC 5/21/2018 (NORRIS)
PENDING CD - 201803468	6/21/2018 - G58 - 8-7N-6W X172459 SPRG 2 WELLS NO OP. NAMED REC 5/21/2018 (NORRIS)
PENDING CD - 201803470	6/21/2018 - G58 - (I.O.) 5, 8, & 17-7N-6W X164772 SPRG 17-7N-6W X172459 SPRG 8-7N-6W X578776 SPRG 5-7N-6W X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO PROPOSED WELL COMPL. INT. (17-7N-6W) NCT 150' FSL, NCT 0' FNL, NCT 1320' FWL COMPL. INT. (8-7N-6W) NCT 0' FSL, NCT 0' FNL, NCT 1320' FWL COMPL. INT. (5-7N-6W) NCT 0' FSL, NCT 2640' FNL, NCT 1320' FWL NO OP. NAMED REC 5/21/2018 (NORRIS)
PENDING CD - 201803471	6/21/2018 - G58 - (I.O.) 5, 8, & 17-7N-6W EST MULTIUNIT HORIZONTAL WELL X164772 SPRG 17-7N-6W X172459 SPRG 8-7N-6W X578776 SPRG 5-7N-6W 40% 17-7N-6W 40% 8-7N-6W 20% 5-7N-6W NO OP. NAMED REC 5/21/2018 (NORRIS)
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
SPACING - 578776	6/21/2018 - G58 - (640) 5-7N-6W EST OTHERS EXT 172459 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: 20-07N-06W
BHL-3 05-07N-06W



051-24392

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 07N Range 06W I.M.

Well: SCHOOF 3-17-8-5XHS

County GRADY State OK

Well: --

Operator CONTINENTAL RESOURCES, INC.

NAD-83

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W3	SCHOOF 3-17-8-5XHS	632892	2010973	35° 04' 20.31" -97° 51' 29.01"	35.072308 -97.858059	278' FNL / 1906' FWL (NW/4 SEC 20)	1136.01	1136.04
LP-3	LANDING POINT	633221	2011047	35° 04' 23.55" -97° 51' 28.11"	35.073209 -97.857810	50' FSL / 1980' FWL (SW/4 SEC 17)	--	--
BHL-3	BOTTOM HOLE LOCATION	646237	2010981	35° 06' 32.30" -97° 51' 28.68"	35.108972 -97.857968	2500' FSL / 1980' FWL (SW/4 SEC 05)	--	--
X-1	BETTY JEAN #1-8-5XH	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	637798	2013675	35° 05' 08.79" -97° 50' 56.42"	35.085774 -97.849006	17-7N-6W:NE4 TD: 15,070' 1,980' FSL / 1,980' FWL	--	--
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
W3	SCHOOF 3-17-8-5XHS	632850	2042570	35° 04' 20.07" -97° 51' 27.86"	35.072242 -97.857739	278' FNL / 1906' FWL (NW/4 SEC 20)	1136.01	1136.04
LP-3	LANDING POINT	633179	2042644	35° 04' 23.32" -97° 51' 26.96"	35.073144 -97.857490	50' FSL / 1980' FWL (SW/4 SEC 17)	--	--
BHL-3	BOTTOM HOLE LOCATION	646195	2042578	35° 06' 32.07" -97° 51' 27.53"	35.108907 -97.857647	2500' FSL / 1980' FWL (SW/4 SEC 05)	--	--
X-1	BETTY JEAN #1-8-5XH	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	637756	2045271	35° 05' 08.55" -97° 50' 55.27"	35.085709 -97.848686	17-7N-6W:NE4 TD: 15,070' 1,980' FSL / 1,980' FWL	--	--
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	--	--

Certificate of Authorization No. 7318

Date Staked: 05-07-18
Date Drawn: 05-07-18



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

REVISIONS

No.	DATE	BY	DESCRIPTION	COMMENTS
00	05-07-18	MJL	ISSUED FOR APPROVAL	--

EXHIBIT: A (2 of 2)
SHEET: 8.5x14
SHL: 20-07N-06W
BHL-3 05-07N-06W

PETRO LAND SERVICES SOUTH, LLC

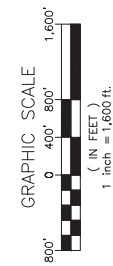
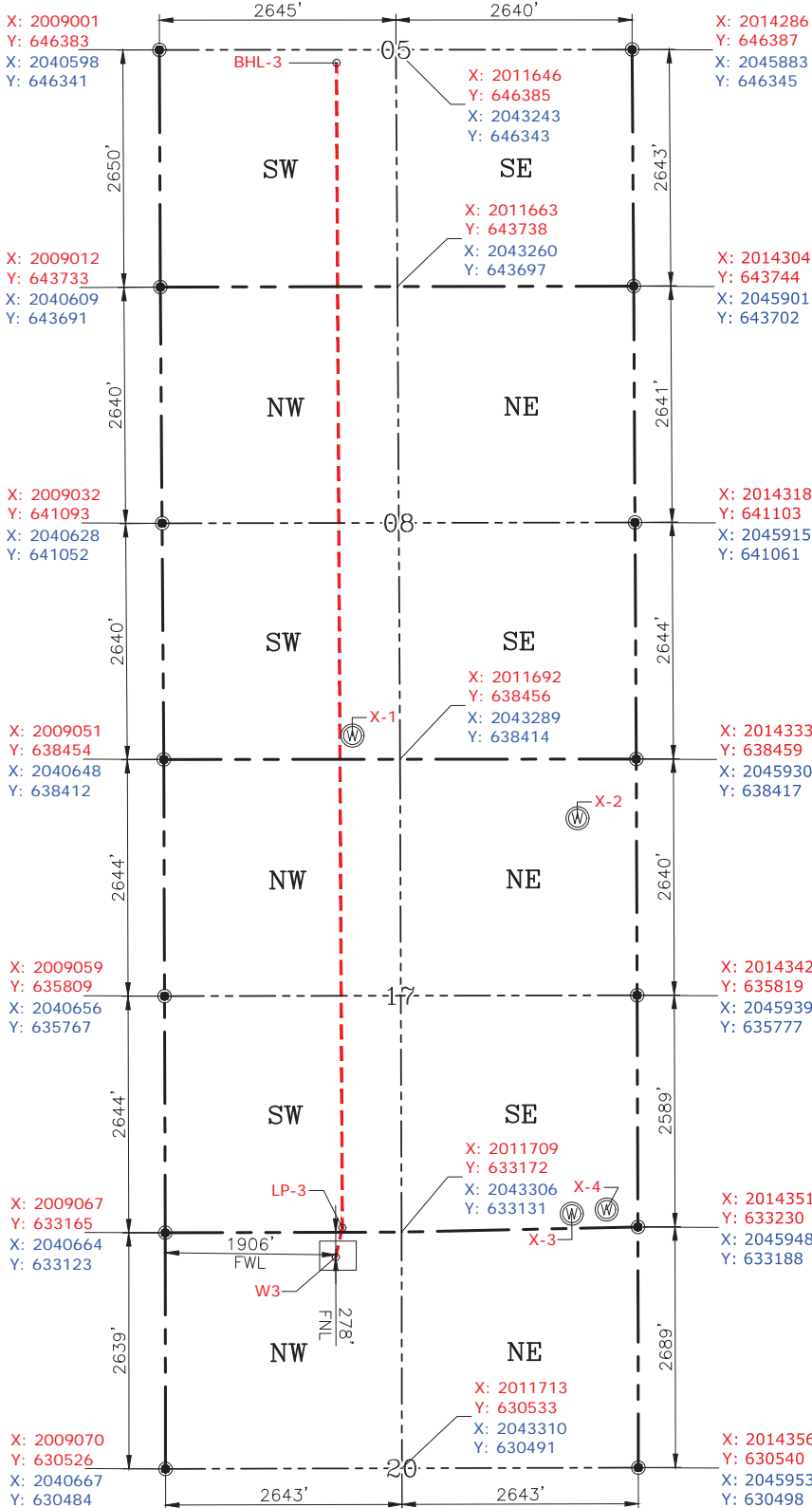
10400 VINEYARD BLVD, SUITE C, OKLA. CITY, OKLA. 73120 * OFFICE (405) 212-3108
Certificate of Authorization No. 7318



CONTINENTAL
RESOURCES, INC
(OPERATOR)

GRADY _____ County Oklahoma
278' FNL-1906' FWL Section 20 Township 07N Range 06W I.M.

WELL: SCHOOF
3-17-8-5XHS



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



Randall J. Bilyeu

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: 05-07-18
Date Drawn: 05-07-18

CURRENT REV.: 0

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.

Oklahoma PLS No.1196 DATE