

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

API NUMBER: 051 24391

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: ☐ NW ☐ SE ☐ NW ☐ NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 721 984

Lease Name: SCHOOF

Well No: 2-17-8-5XHS

Well will be 721 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

JSSJ CORP  
PO BOX 412  
CHICKASHA OK 73023

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

	Name	Depth	Name	Depth
1	SPRINGER	12530	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 164772  
172459  
578776

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201803469  
201803470  
201803467  
201803468  
201803466

Special Orders:

Total Depth: 25879

Ground Elevation: 1138

**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: 18-34566

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 NW SW

Feet From: SOUTH 1/4 Section Line: 2500

Feet From: WEST 1/4 Section Line: 660

Depth of Deviation: 12112

Radius of Turn: 477

Direction: 350

Total Length: 13018

Measured Total Depth: 25879

True Vertical Depth: 12530

End Point Location from Lease,  
Unit, or Property Line: 660

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](http://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](http://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 24391 SCHOOF 2-17-8-5XHS

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 - 201803469	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)
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 330' FWL COMPL. INT. (8-7N-6W) NCT 0' FSL, NCT 0' FNL, NCT 330' FWL COMPL. INT. (5-7N-6W) NCT 0' FSL, NCT 2640' FNL, NCT 330' FWL 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: 20-7N-6W  
BHL-2 5-7N-6W



051-24391

## 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 2-17-8-5XHS

County GRADY State OK

Well: --

Operator CONTINENTAL RESOURCES, INC.

#### NAD-83

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W2	SCHOOF 2-17-8-5XHS	632447	2010052	35° 04' 15.92" -97° 51' 40.10"	35.071088 -97.861139	721' FNL / 984' FWL (NW/4 SEC 20)	1137.88	1137.88'
LP-2	LANDING POINT	633217	2009727	35° 04' 23.53" -97° 51' 44.00"	35.073204 -97.862221	50' FSL / 660' FWL (SW/4 SEC 17)	--	--
BHL-2	BOTTOM HOLE LOCATION	646235	2009661	35° 06' 32.29" -97° 51' 44.57"	35.108970 -97.862381	2500' FSL / 660' FWL (SW/4 SEC 5)	--	--
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' 08.77" -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
W2	SCHOOF 2-17-8-5XHS	632405	2041649	35° 04' 15.68" -97° 51' 38.95"	35.071022 -97.860819	721' FNL / 984' FWL (NW/4 SEC 20)	1137.88	1137.88'
LP-2	LANDING POINT	633175	2041324	35° 04' 23.30" -97° 51' 42.84"	35.073139 -97.861901	50' FSL / 660' FWL (SW/4 SEC 17)	--	--
BHL-2	BOTTOM HOLE LOCATION	646193	2041258	35° 06' 32.06" -97° 51' 43.42"	35.108905 -97.862060	2500' FSL / 660' FWL (SW/4 SEC 5)	--	--
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: 05-15-18  
Date Drawn: 05-15-18



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

#### REVISIONS

No.	DATE	BY	DESCRIPTION	COMMENTS
00	05-15-18	TJW	ISSUED FOR APPROVAL	--

Oklahoma PLS No.1196      DATE