

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

API NUMBER: 051 24661

Approval Date: 06/25/2019

Expiration Date: 12/25/2020

Horizontal Hole
Oil & Gas
Multi Unit

PERMIT TO DRILL

WELL LOCATION: Sec: 03 Twp: 8N Rge: 7W

County: GRADY

SPOT LOCATION: ☐ NE ☐ SW ☐ NW ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 1732 394

Lease Name: LEONARD

Well No: 1-3-10-15XHM

Well will be 394 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

DANIEL PHELPS
2009 MORNING TIDE LANE
LEAGUE TX 77573

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

	Name	Depth	Name	Depth
1	CANEY	12566	6	
2	MISSISSIPPIAN	12655	7	
3	SYCAMORE	12865	8	
4	WOODFORD	13200	9	
5			10	

Spacing Orders: 684948
621647

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201902744
201902745
201902746
201902742

Special Orders:

Total Depth: 24119

Ground Elevation: 1184

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 300

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: 19-36712

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 15 Twp 8N Rge 7W County GRADY

Spot Location of End Point: S2 SE SW SW

Feet From: SOUTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 990

Depth of Deviation: 11223

Radius of Turn: 409

Direction: 175

Total Length: 12254

Measured Total Depth: 24119

True Vertical Depth: 13200

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

Notes:

Category

Description

DEEP SURFACE CASING

6/18/2019 - 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

6/18/2019 - 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

6/18/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201902742

6/24/2019 - G58 - (640) 10-8N-7W
VAC OTHES
EXT 684948 MSSP, WDFD
REC 6/4/2019 (M. PORTER)

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 24661 LEONARD 1-3-10-15XHM

Category	Description
PENDING CD - 201902744	6/24/2019 - G58 - 3-8N-7W X684948 MSSP 1 WELL NO OP. NAMED REC 6/4/2019 (M. PORTER)
PENDING CD - 201902745	6/24/2019 - G58 - (I.O.) 3, 10, & 15-8N-7W EST MULTIUNIT HORIZONTAL WELL X684948 MSSP, WDFD X201902742 MSSP, WDFD X621647 CNEY, SCMR, WDFD (CNEY & WDFD ARE ADJACENT CSS TO MSSP & SCMR) 20% 3-8N-7W 40% 10-8N-7W 40% 15-8N-7W NO OP. NAMED REC 6/4/2019 (M. PORTER)
PENDING CD - 201902746	6/24/2019 - G58 - (I.O.) 3, 10, & 15-8N-7W X684948 MSSP, WDFD X201902742 MSSP, WDFD X621647 CNEY, SCMR, WDFD COMPL. INT. 3-8N-7W NCT 2640' FNL, NCT 0' FSL, NCT 330' FWL COMPL. INT. 10-8N-7W NCT 0' FNL, NCT 0' FSL, NCT 330' FWL COMPL. INT. 15-8N-7W NCT 0' FNL, NCT 150' FSL, NCT 330' FWL NO OP. NAMED REC 6/4/2019 (M. PORTER)
SPACING - 621647	6/24/2019 - G58 - (640) 15-8N-7W VAC OTHERS EST CNEY, SCMR, WDFD, OTHERS
SPACING - 68498	6/24/2019 - G58 - (640) 3-8N-7W VAC 160440 MSSLM, OTHERS EXT 650938 MSSP, WDFD, 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: 3-8N-7W
BHL-1 15-8N-7W



COVER SHEET

CONTINENTAL RESOURCES, INC.

P.O. BOX 26900 OKLAHOMA CITY, OK 73126 * (T) 1-800-256-8955 (F) 405-234-9253

051-24661

Section 3 Township 8N Range 7W I.M.

Well: LEONARD 1-3-10-15XHM

County GRADY State OK

Well: --

Operator CONTINENTAL RESOURCES, INC.

NAD-83

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W1	LEONARD 1-3-10-15XHM	677172	1988378	35° 11' 38.50" -97° 56' 00.50"	35.194027 -97.933471	1732' FSL / 394' FWL (SW/4 SEC 3)	1184.29'	1185.37'
LP-1	LANDING POINT	677173	1988974	35° 11' 38.50" -97° 55' 53.32"	35.194029 -97.931477	1732' FSL / 990' FWL (SW/4 SEC 3)	--	--
BHL-1	BOTTOM HOLE LOCATION	664919	1988961	35° 09' 37.30" -97° 55' 53.57"	35.160361 -97.931547	50' FSL / 990' FWL (SW/4 SEC 15)	--	--
X-1	ELMER 1-3-34XHM	677646	1992568	35° 11' 43.16" -97° 55' 10.01"	35.195321 -97.919446	3-8N-7W: TD: 20,748' 2,200' FSL / 711' FEL	--	--

NAD-27

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W1	LEONARD 1-3-10-15XHM	677130	2019975	35° 11' 38.27" -97° 55' 59.33"	35.193964 -97.933148	1732' FSL / 394' FWL (SW/4 SEC 3)	1184.29'	1185.37'
LP-1	LANDING POINT	677131	2020571	35° 11' 38.28" -97° 55' 52.16"	35.193966 -97.931155	1732' FSL / 990' FWL (SW/4 SEC 3)	--	--
BHL-1	BOTTOM HOLE LOCATION	664877	2020558	35° 09' 37.07" -97° 55' 52.41"	35.160298 -97.931225	50' FSL / 990' FWL (SW/4 SEC 15)	--	--
X-1	ELMER 1-3-34XHM	677604	2024165	35° 11' 42.93" -97° 55' 08.84"	35.195259 -97.919123	3-8N-7W: TD: 20,748' 2,200' FSL / 711' FEL	--	--

Certificate of Authorization No. 7318

Date Staked: 6-4-19
Date Drawn: 5-8-19



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

REVISIONS

No.	DATE	BY	DESCRIPTION	COMMENTS
00	5-8-19	HDG	ISSUED FOR APPROVAL	--
01	5-31-19	HDG	SLID PAD WEST	REV'D SHEETS A(1-2),B,F,G,H & I
02	6-4-19	HDG	SLID PAD WEST	REV'D SHEETS A(1-2),B,F,G,H & I

EXHIBIT: A (2 of 2)
SHEET: 8.5x14
SHL: 3-8N-7W
BHL-1 15-8N-7W

PETRO LAND SERVICES SOUTH, LLC

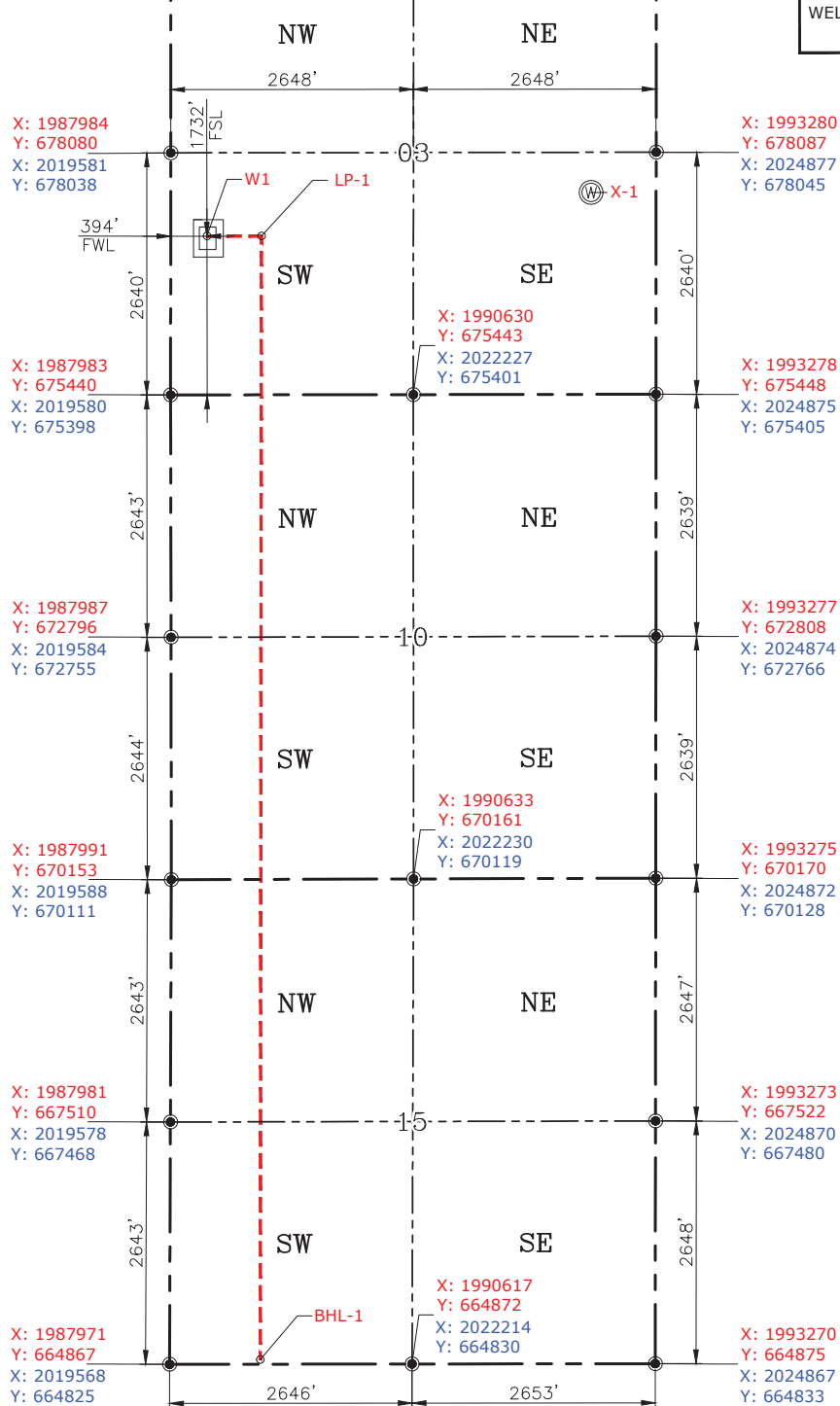
10400 VINEYARD BLVD, SUITE C, OKLA. CITY, OKLA. 73120 * OFFICE (405) 212-3108
Certificate of Authorization No. 7318



CONTINENTAL
RESOURCES, INC.
(OPERATOR)

GRADY County Oklahoma
1732' FSL-394' FWL Section 3 Township 8N Range 7W I.M.

WELL: LEONARD
1-3-10-15XHM



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