

API NUMBER: 051 24774

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

Approval Date: 03/06/2020

Expiration Date: 09/06/2021

Multi Unit

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Section: 29 Township: 7N Range: 6W County: GRADY

SPOT LOCATION: ☐ NE ☐ SW ☐ SE ☐ SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 380 1690

Lease Name: CUNNINGHAM Well No: 4-32-5XHM Well will be 380 feet from nearest unit or lease boundary.

Operator Name: CONTINENTAL RESOURCES INC Telephone: 4052349020; 4052349000; OTC/OCC Number: 3186 0

CONTINENTAL RESOURCES INC
PO BOX 269000
OKLAHOMA CITY, OK 73126-9000

ZELMA BUSER REVOCABLE TRUST ZELMA BUSER
2331 COUNTY STREET 2880
CHICKASHA OK 73018

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

	Name	Code	Depth
1	MISSISSIPPIAN	359MSSP	13773
2	MISSISSIPPI LIME	351MSSLM	13978
3	WOODFORD	319WDFD	14050

Spacing Orders: 204268
621556

Location Exception Orders: No Exceptions

Increased Density Orders: No Density Orders

Pending CD Numbers: 202000357
202000358
202000363
202000365

Special Orders: No Special Orders

Total Depth: 23886

Ground Elevation: 1074

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 590

Deep surface casing has been approved

Under Federal Jurisdiction: No
Fresh Water Supply Well Drilled: No
Surface Water used to Drill: Yes

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 20--37282

H. SEE MEMO

PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 5000 Average: 3000

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: ALLUVIAL

Pit Location Formation: ALLUVIUM

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: ALLUVIAL

Pit Location Formation: ALLUVIUM

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

The duration of this permit is 18 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.

MULTI UNIT HOLE 1

Section: 5	Township: 6N	Range: 6W	Total Length: 10494
County: GRADY			Measured Total Depth: 23886
Spot Location of End Point: SW	SE	SE	SW
Feet From: SOUTH			1/4 Section Line: 50
Feet From: WEST			1/4 Section Line: 2145
End Point Location from			True Vertical Depth: 14298
Lease, Unit, or Property Line: 50			

NOTES:

Category	Description
DEEP SURFACE CASING	2/25/2020 - GC2 - 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	2/25/2020 - GC2 - 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	2/25/2020 - GC2 - CLOSED SYSTEM=STEEL PITS (REQUIRED- WEST FORK OF BITTER CREEK), OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 202000357	3/4/2020 - G56 - (I.O.) 32-7N-6W & 5-6N-6W ESTABLISH MULTIUNIT HORIZONTAL WELL X204268 MSSLM, WDFD 32-7N-6W X204268 WDFD 5-6N-6W X621556 MSSP 5-6N-6W (WDFD IS ADJACENT COMMON SOURCE OF SUPPLY TO MSSP, MSSLM) 50% 32-7N-5W 50% 5-6N-6W CONTINENTAL RESOURCES, INC. REC 3/3/2020 (P. PORTER)
PENDING CD - 202000358	3/4/2020 - G56 - (I.O.) 32-7N-6W & 5-6N-6W X204268 MSSLM, WDFD 32-7N-6W X204268 WDFD 5-6N-6W X621556 MSSP 5-6N-6W COMPL INT (32-7N-6W) NCT 150' FNL, NCT 0' FSL, NCT 1320' FWL COMPL INT (5-6N-6W) NCT 0' FNL, NCT 150' FSL, NCT 1320' FWL CONTINENTAL RESOURCES, INC. REC 3/3/2020 (P. PORTER)
SPACING - 204268	3/4/2020 - G56 - (640) 32-7N-8W & 5-6N-6W EXT OTHERS EXT 156047 MSSLM, OTHERS EXT 172459 WDFD, OTHERS (VAC MSSLM 5-6N-6W BY 621556)
SPACING - 621556	3/4/2020 - G56 - (640) 5-6N-6W VAC OTHER VAC 204268 MSSLM, OTHERS EXT 610599 MSSP, OTHERS

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

The duration of this permit is 18 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 24774 CUNNINGHAM 4-32-5XHM

EXHIBIT: A (2 of 4)
 SHEET: 8.5x11
 SHL: 29-7N-6W
 BHL-3 5-6N-6W
 BHL-4 5-6N-6W



COVER SHEET CONTINUED...

CONTINENTAL RESOURCES, INC.

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

Section 29 Township 7N Range 6W I.M.

Well: CUNNINGHAM 3-32-5XHW

County GRADY State OK

Well: CUNNINGHAM 4-32-5XHM

Operator CONTINENTAL RESOURCES, INC.

NAD-27

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W3	CUNNINGHAM 3-32-5XHW	622951	2042320	35° 02' 42.16" -97° 51' 31.03"	35.045043 -97.858620	380' FSL / 1660' FWL (SW/4 SEC 29)	1072.98'	1073.65'
LP-3	LANDING POINT	622520	2041979	35° 02' 37.90" -97° 51' 35.14"	35.043861 -97.859761	50' FNL / 1320' FWL (NW/4 SEC 32)	---	---
BHL-3	BOTTOM HOLE LOCATION	612027	2041993	35° 00' 54.11" -97° 51' 35.15"	35.015030 -97.859764	50' FSL / 1320' FWL (SW/4 SEC 5)	---	---
W4	CUNNINGHAM 4-32-5XHM	622951	2042350	35° 02' 42.15" -97° 51' 30.67"	35.045043 -97.858519	380' FSL / 1690' FWL (SW/4 SEC 29)	1073.06'	1073.65'
LP-4	LANDING POINT	622522	2042804	35° 02' 37.91" -97° 51' 25.22"	35.043864 -97.857005	50' FNL / 2145' FWL (NW/4 SEC 32)	---	---
BHL-4	BOTTOM HOLE LOCATION	612028	2042818	35° 00' 54.11" -97° 51' 25.23"	35.015031 -97.857009	50' FSL / 2145' FWL (SW/4 SEC 5)	---	---
X-1	REYNOLDS-BOLES #1-32	619800	2044257	35° 02' 10.97" -97° 51' 07.79"	35.036380 -97.852163	32-7N-6W: TD: 13,100' 2,500' FSL / 1,713' FEL	---	---
X-2	NUNN #1-32H	617498	2043651	35° 01' 48.21" -97° 51' 15.12"	35.030057 -97.854201	32-7N-6W: TD: 17,323' 200' FSL / 2,310' FEL	---	---
X-3	HARTLEY #2-29H	622296	2042144	35° 02' 35.68" -97° 51' 33.16"	35.043244 -97.859210	32-7N-6W: TD: 18,791' 275' FNL / 1,485' FWL	---	---
X-4	HARTLEY #3-29H	622089	2043503	35° 02' 33.61" -97° 51' 16.82"	35.042670 -97.854673	32-7N-6W: TD: 18,453' 485' FNL / 2,475' FEL	---	---
X-5	HARTLEY #1-29H	622268	2041089	35° 02' 35.42" -97° 51' 45.84"	35.043172 -97.862735	32-7N-6W: TD: 18,350' 300' FNL / 430' FWL	---	---
X-6	CHESTER #3-32-5XHS	622089	2043703	35° 02' 33.61" -97° 51' 14.42"	35.042671 -97.854005	32-7N-6W: TD: 23,045' 485' FNL / 2,275' FEL	---	---
X-7	CHESTER #2-32-5XHS	622296	2042143	35° 02' 35.68" -97° 51' 33.17"	35.043244 -97.859213	32-7N-6W: TD: 23,004' 275' FNL / 1,484' FWL	---	---
X-8	MISER ET AL UNIT #1	612946	2041883	35° 01' 03.21" -97° 51' 36.46"	35.017557 -97.860127	5-6N-6W: TD: 13,200' 970' FSL / 1,210' FWL	---	---
X-9	HUMPHREY #1	615939	2041332	35° 01' 32.82" -97° 51' 43.03"	35.025783 -97.861952	5-6N-6W: TD: 12,988' 1,351' FNL / 660' FWL	---	---
X-10	CUNNINGHAM #1-5H	612199	2043400	35° 00' 55.80" -97° 51' 18.23"	35.015499 -97.855064	5-6N-6W: TD: 19,114' 220' FSL / 2,570' FEL	---	---
X-11	CHESTER #1-32H	616979	2045262	35° 01' 43.05" -97° 50' 55.76"	35.028624 -97.848823	5-6N-6W: TD: 18,425' 325' FNL / 699' FEL	---	---

Certificate of Authorization No. 7318



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

CURRENT REV.: 0

Oklahoma PLS No.1196 DATE