

API NUMBER: 051 24770 A

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

Approval Date: 03/04/2020

Expiration Date: 09/04/2021

Multi Unit Oil & Gas

Amend reason: MOVE SHL, CHANGE SURFACE OWNER &
UPDATE ORDERS

AMEND PERMIT TO DRILL

WELL LOCATION: Section: 32 Township: 7N Range: 6W County: GRADY

SPOT LOCATION: ☐ NW ☐ SW ☐ NE ☐ NW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 890 1600

Lease Name: CUNNINGHAM Well No: 3-32-5XHW Well will be 890 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 268870
OKLAHOMA CITY, OK 73126-8870

HARPER REVOCABLE LIVING TRUST
1282 COUNTY ROAD 1344
CHICKASHA OK 73018

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

	Name	Code	Depth
1	MISSISSIPPIAN	359MSSP	13782
2	MISSISSIPPI LIME	351MSSLM	13992
3	WOODFORD	319WDFD	14234

Spacing Orders: 204268
621556
710337

Location Exception Orders: 710338

Increased Density Orders: 710095
710097

Pending CD Numbers: No Pending

Working interest owners' notified: ***

Special Orders: No Special Orders

Total Depth: 24159 Ground Elevation: 1073

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: 20-37283
H. (Other) 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	Meridian: IM	Total Length: 10222
County: GRADY				Measured Total Depth: 24159
Spot Location of End Point: S2	S2	S2	SW	True Vertical Depth: 14664
Feet From: SOUTH	1/4 Section Line: 50			End Point Location from
Feet From: WEST	1/4 Section Line: 1320			Lease, Unit, or Property Line: 50

NOTES:

Category	Description
DEEP SURFACE CASING	2/24/2020 - 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	2/24/2020 - GC2 - OCC 165:10-3-10 REQUIRES: 1) NOTICE SHALL BE GIVEN AT LEAST 5 BUSINESS DAYS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS ON A HORIZONTAL WELL TO OPERATORS PRODUCING WELLS WITHIN 1 MILE OF THE COMPLETION INTERVAL OF THE SUBJECT WELL. THE NOTICE TO SUCH OPERATORS SHALL CONTAIN THE INFORMATION IN FORM 6000NOO. IF THE HYDRAULIC FRACTURING OPERATIONS SCHEDULE CHANGES AFTER NOTICE HAS BEEN PROVIDED, RESULTING IN A DELAY OF OPERATIONS OF MORE THAN 5 DAYS FROM THE INITIAL NOTICE, NEW NOTICE IS REQUIRED TO BE GIVEN; 2) NOTICE WILL BE GIVEN TO THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS. FORM 6000NHF SHALL BE USED AND IS FOUND AT THIS LINK: OCCWEB.COM/OG/OGFORMS.HTML ; AND, 3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS IS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION OF HYDRAULIC FRACTURING OPERATIONS, FOUND AT FRACFOCUS.ORG
INCREASED DENSITY - 710095 (202000364)	3/2/2021 - G56 - 32-7N-6W X204268 WDFD 5 WELLS NO OP NAMED 3/19/2020
INCREASED DENSITY - 710097 (202000366)	3/2/2021 - G56 - 5-6N-6W X204268 WDFD 5 WELLS NO OP NAMED 3/19/2020
LOCATION EXCEPTION - 710338 (202000356)	3/2/2021 - 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 660' FWL COMPL INT (5-6N-6W) NCT 0' FNL, NCT 150' FSL, NCT 660' FWL NO OP NAMED 3/30/2020
MEMO	2/24/2020 - GC2 - CLOSED SYSTEM=STEEL PITS (REQUIRED- WEST FORK OF BITTER CREEK), OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
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.

SPACING - 710337 (202000353)

3/2/2021 - 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
(MSSP, MSSLM ARE ADJACENT COMMON SOURCES OF SUPPLY TO WDFD)
50% 32-7N-5W
50% 5-6N-6W
CONTINENTAL RESOURCES, INC.
3/30/2020

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 24770 CUNNINGHAM 3-32-5XHW

EXHIBIT: A (1 of 4)
 SHEET: 8.5x11
 SHL: 32-7N-6W
 BHL-3 5-6N-6W
 BHL-4 5-6N-6W



COVER SHEET

CONTINENTAL RESOURCES, INC.

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

Section 32 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-83

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W3	CUNNINGHAM 3-32-5XHW	621722	2010663	35° 02' 29.83" -97° 51' 32.93"	35.041619 -97.859148	890' FNL / 1600' FWL (NW/4 SEC 32)	1073.11'	1073.82'
LP-3	LANDING POINT	622462	2010382	35° 02' 37.15" -97° 51' 36.29"	35.043653 -97.860081	150' FNL / 1320' FWL (NW/4 SEC 32)	--	--
BHL-3	BOTTOM HOLE LOCATION	612068	2010396	35° 00' 54.35" -97° 51' 36.30"	35.015097 -97.860083	50' FSL / 1320' FWL (SW/4 SEC 5)	--	--
W4	CUNNINGHAM 4-32-5XHM	621722	2010693	35° 02' 29.83" -97° 51' 32.57"	35.041619 -97.859048	890' FNL / 1630' FWL (NW/4 SEC 32)	1073.27'	1073.82'
LP-4	LANDING POINT	622464	2011207	35° 02' 37.16" -97° 51' 26.37"	35.043655 -97.857325	150' FNL / 2145' FWL (NW/4 SEC 32)	--	--
BHL-4	BOTTOM HOLE LOCATION	612070	2011221	35° 00' 54.35" -97° 51' 26.38"	35.015098 -97.857328	50' FSL / 2145' FWL (SW/4 SEC 5)	--	--
X-1	REYNOLDS-BOLES #1-32	619842	2012661	35° 02' 11.21" -97° 51' 08.94"	35.036446 -97.852482	32-7N-6W: TD: 13,100' 2,500' FSL / 1,713' FEL	--	--
X-2	NUNN #1-32H	617540	2012054	35° 01' 48.44" -97° 51' 16.27"	35.030123 -97.854520	32-7N-6W: TD: 17,323' 200' FSL / 2,310' FEL	--	--
X-3	HARTLEY #2-29H	622337	2010547	35° 02' 35.91" -97° 51' 34.31"	35.043310 -97.859530	32-7N-6W: TD: 18,791' 275' FNL / 1,485' FWL	--	--
X-4	HARTLEY #3-29H	622130	2011906	35° 02' 33.85" -97° 51' 17.97"	35.042736 -97.854993	32-7N-6W: TD: 18,453' 485' FNL / 2,475' FEL	--	--
X-5	HARTLEY #1-29H	622310	2009492	35° 02' 35.66" -97° 51' 47.00"	35.043238 -97.863054	32-7N-6W: TD: 18,350' 300' FNL / 430' FWL	--	--
X-6	CHESTER #3-32-5XHS	622131	2012106	35° 02' 33.85" -97° 51' 15.57"	35.042737 -97.854325	32-7N-6W: TD: 23,045' 485' FNL / 2,275' FEL	--	--
X-7	CHESTER #2-32-5XHS	622337	2010546	35° 02' 35.91" -97° 51' 34.32"	35.043310 -97.859533	32-7N-6W: TD: 23,004' 275' FNL / 1,484' FWL	--	--
X-8	MISER ET AL UNIT #1	612988	2010286	35° 01' 03.45" -97° 51' 37.61"	35.017624 -97.860447	5-6N-6W: TD: 13,200' 970' FSL / 1,210' FWL	--	--
X-9	HUMPHREY #1	615981	2009735	35° 01' 33.06" -97° 51' 44.18"	35.025849 -97.862272	5-6N-6W: TD: 12,988' 1,351' FNL / 660' FWL	--	--
X-10	CUNNINGHAM #1-5H	612241	2011803	35° 00' 56.03" -97° 51' 19.38"	35.015565 -97.855383	5-6N-6W: TD: 19,114' 220' FSL / 2,570' FEL	--	--
X-11	CHESTER #1-32H	617021	2013665	35° 01' 43.28" -97° 50' 56.91"	35.028690 -97.849142	5-6N-6W: TD: 18,425' 325' FNL / 699' FEL	--	--

REVISIONS

No.	DATE	STAKED	BY	DESCRIPTION	COMMENTS
00	2-28-20	***-**-20	HOG	ISSUED FOR APPROVAL	--
01	2-28-20	***-**-20	HOG	REV'D LP'S	REV'D SHEETS A1-A4

Certificate of Authorization No. 7318



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

EXHIBIT: A (2 of 4)
 SHEET: 8.5x11
 SHL: 32-7N-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 32 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	621680	2042259	35° 02' 29.58" -97° 51' 31.78"	35.041553 -97.858828	890' FNL / 1600' FWL (NW/4 SEC 32)	1073.11'	1073.82'
LP-3	LANDING POINT	622420	2041979	35° 02' 36.91" -97° 51' 35.14"	35.043587 -97.859761	150' 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	621680	2042289	35° 02' 29.59" -97° 51' 31.42"	35.041553 -97.858728	890' FNL / 1630' FWL (NW/4 SEC 32)	1073.27'	1073.82'
LP-4	LANDING POINT	622422	2042804	35° 02' 36.92" -97° 51' 25.22"	35.043589 -97.857005	150' 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.: 1

EXHIBIT: A (3 of 4)
SHEET: 8.5x14
SHL: 32-7N-6W
BHL-3 5-6N-6W

PETRO LAND SERVICES SOUTH, LLC

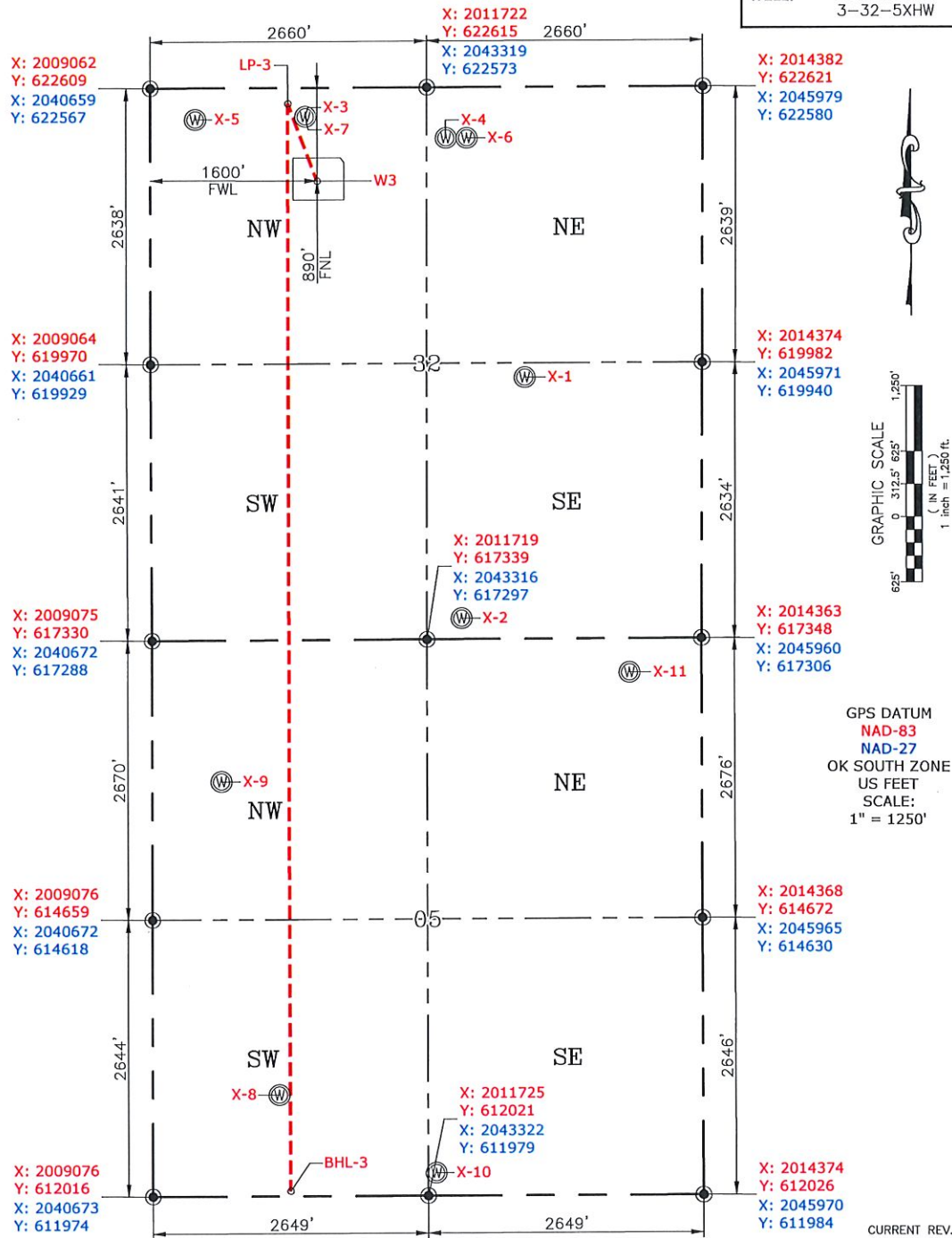
10400 VINEYARD BLVD. SUITE C, OKLA. CITY, OKLA. 73120 * OFFICE (405) 212-3108
Certificate of Authorization No. 7318



CONTINENTAL
RESOURCES, INC.
(OPERATOR)

GRADY County Oklahoma
890' FNL-1600' FWL Section 32 Township 7N Range 6W I.M.

WELL: CUNNINGHAM
3-32-5XHW



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