

API NUMBER: 051 24769

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

PERMIT TO DRILL

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

SPOT LOCATION: ☐ NE ☐ SW ☐ NW ☐ NW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 765 430

Lease Name: CUNNINGHAM Well No: 2-32-5XHW Well will be 430 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

HARPER REVOCABLE LOVING TRUST
1282 COUNTY ROAD 1344
CHICKASHA OK 73018

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

	Name	Code	Depth
1	MISSISSIPPIAN	359MSSP	13773
2	MISSISSIPPI LIME	351MSSLM	13992
3	WOODFORD	319WDFD	14214

Spacing Orders: 204268
621556

Location Exception Orders: No Exceptions

Increased Density Orders: No Density Orders

Pending CD Numbers: 202000343
202000348
202000364
202000366

Special Orders: No Special Orders

Total Depth: 22972 Ground Elevation: 1071

Surface Casing: 640

Depth to base of Treatable Water-Bearing FM: 590

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)
H. SEE MEMO

PERMIT NO: 20-37281

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: 9778	
County: GRADY			Measured Total Depth: 22972	
Spot Location of End Point: SE	SW	SW	True Vertical Depth: 14510	
Feet From: SOUTH	1/4 Section Line: 50		End Point Location from	
Feet From: WEST	1/4 Section Line: 495		Lease,Unit, or Property Line: 50	

NOTES:	
Category	Description
HYDRAULIC FRACTURING	<p>2/25/2020 - GC2 - OCC 165:10-3-10 REQUIRES:</p> <p>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;</p> <p>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,</p> <p>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</p>
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 - 202000343	<p>2/26/2020 - 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 (MSSP, MSSLM ARE ADJACENT COMMON SOURCES OF SUPPLY TO WDFD) 50% 32-7N-5W 50% 5-6N-6W CONTINENTAL RESOURCES, INC. REC 3/3/2020 (P. PORTER)</p>
PENDING CD - 202000348	<p>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 330' FWL COMPL INT (5-6N-6W) NCT 0' FNL, NCT 150' FSL, NCT 330' FWL CONTINENTAL RESOURCES, INC. REC 3/3/2020 (P. PORTER)</p>
PENDING CD - 202000364	<p>3/4/2020 - G56 - 32-7N-6W X204268 WDFD 5 WELLS NO OP NAMED REC 3/3/2020 (P. PORTER)</p>
PENDING CD - 202000366	<p>3/4/2020 - G56 - 5-6N-6W X204268 WDFD 5 WELLS NO OP NAMED REC 3/3/2020 (P. PORTER)</p>
PUBLIC WATER SUPPLY	2/26/2020 - GC2 - NO DSC PERMITTED, PWS - SKYVIEW TP (NW4) 32-7N-6W
SPACING - 204268	<p>2/26/2020 - 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)</p>
SPACING - 621556	<p>2/26/2020 - G56 - (640) 5-6N-6W VAC OTHER VAC 204268 MSSLM, OTHERS EXT 610599 MSSP, OTHERS</p>

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.

EXHIBIT: A (1 of 3)
 SHEET: 8.5x11
 SHL: 32-7N-6W
 BHL-2 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 2-32-5XHW

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	CUNNINGHAM 2-32-5XHW	621845	2009493	35° 02' 31.08" -97° 51' 47.00"	35.041962 -97.863055	765' FNL / 430' FWL (NW/4 SEC 32)	1070.39'	1070.94'
LP-2	LANDING POINT	621845	2009558	35° 02' 31.08" -97° 51' 46.22"	35.041961 -97.862838	765' FNL / 495' FWL (NW/4 SEC 32)	--	--
BHL-2	BOTTOM HOLE LOCATION	612067	2009571	35° 00' 54.34" -97° 51' 46.22"	35.015095 -97.862838	50' FSL / 495' 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	2-11-20	**--20	HOG	ISSUED FOR APPROVAL	--
01	2-12-20	**--20	HOG	REV'D GRADING	REV'D EXHIBIT A(1&2),B,F,H,I & "A"

Certificate of Authorization No. 7318



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

EXHIBIT: A (2 of 3)
 SHEET: 8.5x11
 SHL: 32-7N-6W
 BHL-2 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 2-32-5XHW

County GRADY State OK

Well: --

Operator CONTINENTAL RESOURCES, INC.

NAD-27

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W2	CUNNINGHAM 2-32-5XHW	621803	2041090	35° 02' 30.82" -97° 51' 45.85"	35.041896 -97.862736	765' FNL / 430' FWL (NW/4 SEC 32)	1070.39'	1070.94'
LP-2	LANDING POINT	621803	2041155	35° 02' 30.82" -97° 51' 45.07"	35.041895 -97.862518	765' FNL / 495' FWL (NW/4 SEC 32)	--	--
BHL-2	BOTTOM HOLE LOCATION	612025	2041168	35° 00' 54.10" -97° 51' 45.07"	35.015028 -97.862519	50' FSL / 495' 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	615839	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 3)
SHEET: 8.5x14
SHL: 32-7N-6W
BHL-2 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



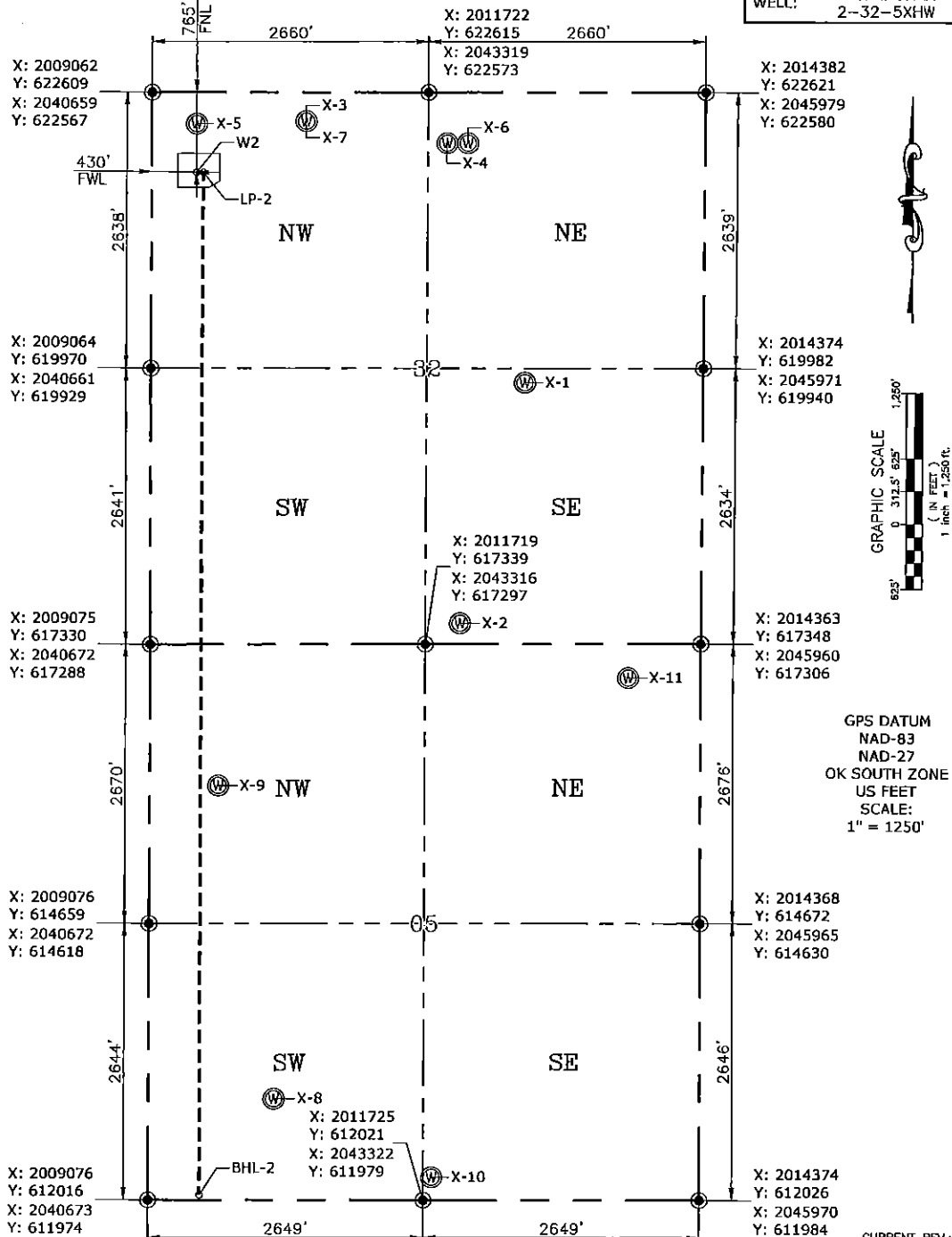
CONTINENTAL
RESOURCES, INC.
(OPERATOR)

GRADY

County Oklahoma

765' FNL-430' FWL Section 32 Township 7N Range 6W I.M.

WELL: CUNNINGHAM
2-32-SXHW



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.



Oklahoma PLS No.1196 DATE