### OKLAHOMA CORPORATION COMMISSION **OIL & GAS CONSERVATION DIVISION** P.O. BOX 52000 **OKLAHOMA CITY, OK 73152-2000**

(Rule 165:10-3-1)

Approval Date: 10/22/2019 04/22/2021 **Expiration Date** 

3186 0

Well will be 1000 feet from nearest unit or lease boundary.

OTC/OCC Number:

API NUMBER: 051 24729 Α

Horizontal Hole Multi Unit

Amend reason: MOVE SHL, TOTAL DEPTH, WOODFORD TARGET DEPTH, RADIUS, TOTAL LENGTH, BTW & MSC AND MEASURED TD & TVD DEPTH, BHL, UPDATE ORDERS

Oil & Gas

AMEND PERMIT TO DRILL

WEST

1000

Telephone: 4052349020; 4052349

WELL LOCATION: Sec: 09 Twp: 7N Rge: 5W County: GRADY FEET FROM QUARTER: SPOT LOCATION: SE NE sw NW NORTH FROM 1955 Lease Name: EMERY Well No: 2-9-16XHW

CONTINENTAL RESOURCES INC PO BOX 269000

Operator

OKLAHOMA CITY. OK 73126-9000

CONTINENTAL RESOURCES INC

MELVIN R. AND ALMA J. RICKS 1515 SILVER OAK DRIVE

**BLANCHARD** OK 73010

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

Name Depth Name Depth WOODFORD 1 11640 6 2 7 8 3 4 9 5 10 644200 Spacing Orders: Location Exception Orders: Increased Density Orders: 704973 653269 704972

Pending CD Numbers: 201904914 Special Orders:

201904915

Total Depth: 19990 Ground Elevation: 1249 Surface Casing: 430 Depth to base of Treatable Water-Bearing FM: 380

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

Approved Method for disposal of Drilling Fluids: 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?

Wellhead Protection Area?

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: 19-37022

H. SEE MEMO

#### 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? Y
Wellhead Protection Area? Y

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. 16 Twp 7N Rge 5W 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: 11163 Radius of Turn: 488 Direction: 185

Total Length: 8061

Measured Total Depth: 19990
True Vertical Depth: 11640
End Point Location from Lease,
Unit, or Property Line: 50

Notes:

Category Description

HYDRAULIC FRACTURING

10/17/2019 - 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

INCREASED DENSITY - 704972 10/21/2019 - GC2 - 16-7N-5W

X644200 WDFD 6 WELLS NO OP. NAMED

REC. 10-21-2019 (P. PORTER)

INCREASED DENSITY - 704973 10/21/2019 - GC2 - 9-7N-5W

X653269 WDFD 3 WELLS NO OP. NAMED

REC. 10-21-2019 (P. PORTER)

MEMO 10/17/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2

- OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201904914 10/21/2019 - GC2 - (I.O.) 16 & 9-7N-5W

EST MULTIUNIT HÖRIZONTAL WELL

X644200 WDFD 16-7N-5W X653269 WDFD 9-7N-5W

50% 16-7N-5W 50% 9-7N-5W

CONTINENTAL RESOURCES, INC REC. 10-21-2019 (P. PORTER)

PENDING CD - 201904915 10/21/2019 - GC2 - (I.O.) 16 & 9-7N-5W

X644200 WDFD 16-7N-5W X653269 WDFD 9-7N-5W

X165:10-3-28(C)(2)(B) WDFD MAY BE CLOSER THAN 600' TO EXISTING AND/OR PROPOSED

WELL

COMPL. INT. (16-7N-5W) NCT 150' FSL, NCT 0' FNL, NCT 330' FWL COMPL. INT. (9-7N-5W) NCT 0'

FSL, NCT 150' FNL, NCT 330' FWL CONTINENTAL RESOURCES, INC

REC. 10-21-2019 (P. PORTER)

PUBLIC WATER SUPPLY WELLS 10/17/2019 - G71 - MIDDLEBERG SCHOOL - 2 PWS/WPA, SW/4 4-7N-5W

SPACING - 644200 10/21/2019 - GC2 - (640)(HOR) 16-7N-5W

EXT (VER) OTHERS EST (VER) OTHERS EST (HOR) WDFD, OTHER

VAC OTHERS

COMPL. INT. NCT 330' FB

SPACING - 653269 10/21/2019 - GC2 - (640)(HOR) 9-7N-5W

EXT 643068 WDFD, OTHERS

**EXT OTHER** 

COMPL. INT. NCT 165' FNL/FSL, NCT 330' FEL/FWL

EXHIBIT: A (1 of 2)

SHEET:

8.5x11

SHL:

9-7N-5W

9-711-51

BHL-2

16-7N-5W



API: 051-24729A

# COVER SHEET

# CONTINENTAL RESOURCES, INC.

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

Section	9 Township	7NRange .	5WI.M.	Well: _	EMERY 2-9-16XHW
County	GRADY	State	ОК	Well: _	

Operator \_\_\_\_\_CONTINENTAL RESOURCES, INC.

		NAD-	-83					
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATIO
W2	EMERY 2-9-16XHW	641905	2046936	35' 05' 48.74" -97' 44' 16.06"	35.096872 -97.737794	1955' FNL / 1000' FWL (NW/4 SEC 9)	1248.90"	1249.41
LP-2	LANDING POINT	641904	2046597	35' 05' 48.74" -97' 44' 20.14"	35.096871 -97.738929	1955' FNL / 660' FWL (NW/4 SEC 9)		
PI-2	POINT OF INTERSECT	638579	2046614	35' 05' 15.85" -97' 44' 20.05"	35.087736 -97.738902	0' FSL / 660' FWL (SW/4 SEC 9)		
BHL-2	BOTTOM HOLE LOCATION	633348	2046950	35' 04' 24.11" -97' 44' 16.16"	35.073363 -97.737823	50' FSL / 990' FWL (SW/4 SEC 16)		
X-1	VIERSEN #1-9	642356	2049699	35° 05' 53,13" -97' 43' 42.80"	35.098092 -97.728556	9-7N-5W:   TD: 12,285'   1,509' FNL / 1,509' FEL		
X-2	EMERY #1-9-16XH	643483	2050824	35' 06' 04.24" -97' 43' 29.22"	35.101179 -97.724783	9-7N-5W:   TD: 6,759'   385' FNL / 382' FEL		
X-3	MIDDLEBERG SWD #1	640333	2047785	35' 05' 33.17" -97' 44' 05.90"	35.092547 -97.734972	9-7N-5W:   TD: 8,050'   1,752' FSL / 1,840' FWL		
X-4	RICKS #7-5-4-1H	642901	2047802	35' 05' 58.57" -97' 44' 05.61"	35.099603 -97.734892	9-7N-5W:   TD: 17,012'   960' FNL / 1,870' FWL		
X-7	EMERY #1R-9-16XH	643450	2050794	35' 06' 03.92" -97' 43' 29.58"	35.101088 -97.724883	9-7N-5W:   TD: 21,281'   418' FNL / 412' FEL	2-2	

NAD-27								
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W2	EMERY 2-9-16XHW	641863	2078533	35' 05' 48.50" -97' 44' 14.91"	35.096805 -97.737476	1955' FNL / 1000' FWL (NW/4 SEC 9)	1248.90'	1249.41'
LP-2	LANDING POINT	641862	2078194	35' 05' 48.50" -97" 44' 19.00"	35.096805 -97.738611	1955' FNL / 660' FWL (NW/4 SEC 9)		
PI-2	POINT OF INTERSECT	638537	2078210	35' 05' 15.61" -97' 44' 18.90"	35.087670 -97.738584	0' FSL / 660' FWL (SW/4 SEC 9)		
BHL-2	BOTTOM HOLE LOCATION	633306	2078547	35' 04' 23.87" -97' 44' 15.02"	35.073296 -97.737505	50' FSL / 990' FWL (SW/4 SEC 16)		
X-1	VIERSEN #1-9	642314	2081295	35° 05′ 52.89″ -97′ 43′ 41.66″	35.098026 -97.728239	9-7N-5W:   TD: 12,285'   1,509' FNL / 1,509' FEL		
X-2	EMERY #1-9-16XH	643441	2082421	35' 06' 04.00" -97' 43' 28.08"	35.101112 -97.724466	9-7N-5W:   TD: 6,759'   385' FNL / 382' FEL		
X-3	MIDDLEBERG SWD #1	640291	2079382	35' 05' 32.93" -97' 44' 04.76"	35.092481 -97.734654	9-7N-5W:   TD: 8,050'   1,752' FSL / 1,840' FWL		
X-4	RICKS #7-5-4-1H	642859	2079399	35' 05' 58.33" -97' 44' 04.47"	35.099537 -97.734574	9-7N-5W:   TD: 17,012'   960' FNL / 1,870' FWL		
x-7	EMERY #1R-9-16XH	643407	2082391	35' 06' 03.68" -97' 43' 28.44"	35.101022 -97.724566	9-7N-5W:   TD: 21,281'   418' FNL / 412' FEL		

Certificate of Authorization No. 7318



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

REVISIONS								
	No.	DATE	STAKED	BY	DESCRIPTION	COMMENTS		
	00	7-12-19	**-**-19	HDG	ISSUED FOR APPROVAL			
h	01	10-8-19	10-15-19	HDG	PAD LOCATION MOVED	REV'D ALL EXHIBITS		
	02	10-31-19	11-01-19	HDG	PAD LOCATION MOVED	REV'D ALL EXHIBITS		
1	03	11-13-19	11-01-19	HDG	REV'D BHL/ADDED PI-2	REV'D EXHIBITS A1 & A2		

### PETRO LAND SERVICES SOUTH, LLC 10400 VINEYARD BLVD. SUITE C, OKLA. CITY, OKLA. 73120 \* OFFICE (405) 212-3108 Certificate of Authorization No. 7318 EXHIBIT: A (2 of 2)

8.5x14

9-7N-5W

16-7N-5W

SHEET: \_

SHL:

BHL-2

9

Continental

GRADY County Oklahoma 1955' FNL-1000' FWL Section \_ Township

7N Range 5W

CONTINENTAL RESOURCES, INC (OPERATOR)

WELL: EMERY 2-9-16XHW 2639 2639' X: 2045927 X: 2051206 Y: 643869 Y: 643858 X: 2077524 X: 2082803 X-2 X: 2048567 Y: 643826 Y: 643815 Y: 643863 X: 2080164 Y: 643821 ₩-X-4 NE 2640 NW ₩-X-1 LP-2 1000 FWL X: 2045940 X: 2051209 Y: 641217 Y: 641228 X: 2082806 X: 2077537 Y: 641186 Y: 641175 ₩-X-3 SCALE 2641 SE SW X: 2048583 Y: 638583 X: 2080180 PI-2 X: 2045954 Y: 638540 X: 2051212 Y: 638578 Y: 638587 X: 2082809 X: 2077550 Y: 638536 Y: 638545 GPS DATUM NAD-83 NAD-27 NW NE OK SOUTH ZONE US FEET SCALE: 1" = 1250 X: 2045954 X: 2051218 Y: 635945 Y: 635937 X: 2077551 X: 2082815 Y: 635895 Y: 635903 2641 SE SW X: 2048592 Y: 633301 X: 2080189 BHL-2 X: 2045960 Y: 633259 X: 2051224 Y: 633297 Y: 633304 X: 2082821 X: 2077557 2632 2632 Y: 633262 Y: 633255 CURRENT REV.: 3 Date Drawn: 11-13-19

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, TYLER J. WILLIS an Oklahoma Licensed Land Surveyor and an authorized agent of Petro Land Services South, LLC, do hereby certify to the information shown herein,

