#### API NUMBER: 051 24736 Α

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

11/21/2019 Approval Date: Expiration Date: 05/21/2021

Horizontal Hole

Multi Unit

Oil & Gas

Ame CHANCE BUIL

nd reason: Change BhL	AMEND PERMIT TO DRILL	
	GRADY FROM NORTH FROM EAST 1685 1581	
Lease Name: MILLS Well	No: 5-16-21XHW We	II will be 1581 feet from nearest unit or lease boundary.
Operator CONTINENTAL RESOURCES INC Name:	Telephone: 4052349020; 4052349	OTC/OCC Number: 3186 0
CONTINENTAL RESOURCES INC PO BOX 269000 OKLAHOMA CITY, OK 73126-9000		ND KELLY RICKS REVOCABLE TRUST, YTON RICKS II, TRUSTEE OK 73010
Formation(s) (Permit Valid for Listed Formations Only):  Name Depth	Name	Depth
1 WOODFORD 11462	6	
2	7	
3	8	
4	9	

10

H. SEE MEMO

Pending CD Numbers: 201905015 Special Orders:

Location Exception Orders:

201905016

644200

593309

Total Depth: 20137 Ground Elevation: 1247 Depth to base of Treatable Water-Bearing FM: 390 Surface Casing: 1500

Deep surface casing has been approved

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

Increased Density Orders:

70972

705338

PERMIT NO: 19-36973

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? N

Wellhead Protection Area?

Pit is not located in a Hydrologically Sensitive Area.

Category of Pit: C

5

Spacing Orders:

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: CHICKASHA

#### 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. 21 Twp 7N Rge 5W County **GRADY** Spot Location of End Point: SW SE SE SF Feet From: SOUTH 1/4 Section Line: 50 Feet From: EAST 1/4 Section Line: 677

Depth of Deviation: 11040
Radius of Turn: 467
Direction: 170
Total Length: 8364

Measured Total Depth: 20137

True Vertical Depth: 11809

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

Notes:

Category Description

DEEP SURFACE CASING 10/21/2019 - 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 10/21/2019 - 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:

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

X644200 WDFD 6 WELLS NO OP. NAMED 11-7-2019

INCREASED DENSITY - 705338 11/21/2019 - GC2 - 21-7N-5W

X593309 WDFD 4 WELLS NO OP. NAMED 11-19-2019 MEMO 10/21/2019 - GC2 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS (REQUIRED - WINTER CREEK

LAKE), PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201905014 11/21/2019 - GC2 - (I.O.) 16 & 21-7N-5W

X644200 WDFD, OTHER 16-7N-5W

XOTHER 16-7N-5W

X593309 WDFD, OTHERS 21-7N-5W

X165:10-3-28(C)(2)(B) WDFD MAY BE CLOSER THAN 600' TO NABORS 1-33-28XHW AND

NABORS 7-33-28XHW

COMPL. INT. (16-7N-5W) NCT 660' FNL, NCT 0' FSL, NCT 660' FEL COMPL. INT. (21-7N-5W) NCT

0' FNL, NCT 150' FSL, NCT 660' FEL CONTINENTAL RESOURCES, INC.

REC. 10-28-2019 (MILLER)

PENDING CD - 201905015 11/21/2019 - GC2 - (I.O.) 16 & 21-7N-5W

EST MULTIUNIT HORIZONTAL WELL X644200 WDFD, OTHER 16-7N-5W

XOTHER 16-7N-5W

X593309 WDFD, OTHERS 21-7N-5W

33% 16-7N-5W

67% 21-7N-5W

CONTINENTAL RESOURCES, INC.

REC. 10-28-2019 (MILLER)

SPACING - 593309 11/21/2019 - GC2 - (640) 21-7N-5W

EST WDFD. OTHERS

**EXT OTHERS** 

SPACING - 644200 11/21/2019 - GC2 - (640) 16-7N-5W

VAC OTHERS
VAC OTHER
EXT (VER) OTHERS
EST (VER) OTHERS
EST (HOR) WDFD, OTHER
COMPL. INT. (WDFD) NCT 330' FB

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 5)

SHEET: \_\_\_\_8.5x11

SHL:

16-7N-5W

BHL-E4

9-7N-5W

BHL-M4 21-7N-5W

BHL-M5 21-7N-5W



# COVER SHEET

## CONTINENTAL RESOURCES, INC.

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

Section 16 Township 7N Range 5W I.M.

Well; \_\_\_EMERY 4-16-9XHW

County \_

GRADY

\_\_\_\_State \_\_\_OK

MILLS 4-16-21XHW Well: \_\_

Operator \_\_\_\_ CONTINENTAL RESOURCES, INC.

MILLS 5-16-21XHW Well: .....

		NAD-	-83					
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
E4	EMERY 4169XHW	636839	2049635	35' 04' 58,56" -97' 43' 43,74"	35.082934 -97.728818	1745' FNL / 1581' FEL (NE/4 SEC 16)	1248.61	1246.75
LP-E4	LANDING POINT	636839	2049456	35' 04' 58,57" -97' 43' 45,90"	35.082935 -97.729416	1745' FNL / 1760' FEL (NE/4 SEC 16)		*****
BHLE4	SOTTOM HOLE LOCATION	543815	2049446	35' 06' 07,56" 97` 43' 45,80"	35,102101 97,729388	50' FNL / 1760' FEL (NE/4 SEC 9)		
М4	MILLS 4-16-21XHW	836869	2049635	35' 04' 58.86" -97' 43' 43.74"	35.083017 -97.728817	1715' FNL / 1581' FEL (NE/4 SEC 16)	1248.69	1246.75'
LP-M4	LANDING POINT	636858	2048823	35' 04' 58.87" -97' 43' 53.52"	35,083019 -97,731532	1715' FNL / 2393' FEL (NE/4 SEC 16)	1	
PI-M4	POINT OF INTERSECT	633301	2048914	35' 04' 23.59" 97' 43' 52.54"	35.073219 -97.731260	0' FSL / 2310' FEL (SE/4 SEC 18)		
8HL-M4	BOTTOM HOLE LOCATION	628066	2049359	35° 03' 31.80" 97' 43' 47.35	35.058833 -97.729819	50' FSL / 1881' FEL (SE/4 SEC 21)		
M5	MILLS 5-16-21XHW	636899	2049635	35° 04' 59.16" -97' 43' 43.74"	35.083099 -97.728817	1685' FNL / 1581' FEL (NE/4 SEC 18)	1248.94	1246.75'
LP-M5	LANDING POINT	636900	2049854	35 04 59.16" -97 43 41.11"	35.083099 -97.728086	1685' FNL / 1362' FEL (NE/4 SEC 16)		
PI-M5	POINT OF INTERSECT	633303	2049904	35' 04' 23.58" -97' 43' 40.63"	35.073216 -97.727952	0' FSL / †320' FEL (SE/4 SEC 16)		***
BHL-MS	BOTTOM HOLE LOCATION	628067	2050563	35' 03' 31.77" -97' 43' 32.87"	35.058826 -97.725796	50' FSL / 677' FEL (SE/4 SEC 2!)		
X-1	VIERSEN #1-9	642357	2049699	35' 05' 53.13" -97' 43' 42.80"	35.098092 -97.728555	9-7N-5W: { TD: 12,285'   1,509' FNL / 1,509' FEL		
X2	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	97N5W:   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	97N5W:   TD: 17,012'   960' FNL / 1,870' FWL		
X5	MILLS #1-21H	628272	2046949	35° 03° 33.90° 97° 44° 16.33°	35.059416 97.737870	21-7N-5W:   TD: 16,400'   255' FSL / 990' FWL		
X6	STRASSLE #1-28-33XH	628634	2045889	35' 03' 37,48" 97' 44' 17,04"	35,060411 -97,738067	21-7N-5W:   TO: 17,873'   617' FSL / 930' 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		

Certificate of Authorization No. 7318

Date Staked: 8-2-19 Date Drawn: 11-13-19



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

REVISIONS						
No.	DATE	ВУ	DESCRIPTION	COMMENTS		
00	6-19-19	HDG ISSUED FOR APPROVAL				
01	7-31-19	HDG	MOVED PAD NORTH	REV'D ALL EXHIBITS		
02	9-16-19	HDG	REV'D ACCESS ROAD	REV'D EXHIBITS F,G & "A"		
03	10-7-19	HDG	REV'D ACCESS ROAD	REV'D EXHIBITS B,F,G,H,I & "A"		
04	11-12-19	HDG	REV'D X-1	REV'D EXHIBITS A1—A3		
05	11-13-19	HDG	REV MILLS 4 & 5 BHL'S	REV'D EXHIBITS A1, A2, A4, & A5		

EXHIBIT: A (2 of 5)

SHEET: 8.5x11

16--7N--5W

SHL:

BHL-E4 <u>9-7N-5W</u>

BHL-M4 21-7N-5W

BHL-M5 21-7N-5W



# COVER SHEET CONTINUED...

### CONTINENTAL RESOURCES, INC.

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

Section 16 Township 7N Range 5W I.M.

Well: EMERY 4-16-9XHW

County

GRADY State OK

Well: MILLS 4-16-21XHW

Operator CONTINENTAL RESOURCES, INC.

Well: \_\_\_\_MILLS 5-16-21XHW

NAD-27								
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
E4	EMERY 4-16-9XHW	636797	2081232	35' 04' 58,32" -97' 43' 42.60"	35,082867 -97,728501	1745' FNL / 1581' FEL (NE/4 SEC 16)	1248.61	1248.75'
LPE4	LANDING POINT	636797	2081053	35' 04' 58.33" -97' 43' 44.76"	35.082869 -97.729099	1745' FNL / 1760' FEL (NE/4 SEC 16)		
BHL-E4	BOTTOM HOLE LOCATION	643773	2081043	35' 06' 07.32" -97' 43' 44.65"	35.102034 97.729071	50' FNL / 1760' FEL (NE/4 SEC 9)		
M4	MILLS 4-16-21XHW	636827	2081232	35' 04' 58.62" -97' 43' 42.60"	35.082950 -97.728500	1715' FNL / 1581' FEL (NE/4 SEC 16)	1248.69'	1246.75
LPM4	LANDING POINT	636826	2080420	35' 04' 58,63" -97' 43' 52.37"	35.082953 97.731215	1715' FNL / 2393' FEL (NE/4 SEC 16)	-	I
P}-M4	POINT OF INTERSECT	633259	2080511	35' 04' 23.35" -97' 43' 51.39"	35.073152 -97.730943	0' FSL / 2310' FEL (SE/4 SEC 16)		
BHLM4	BOTTOM HOLE LOCATION	628024	2080956	35' 03' 31.56" -97' 43' 46.21"	35.058766 -97.729502	50' FSL / 1881' FEL (SE/4 SEC 21)		
<b>M</b> 5	MILLS 5-16-21XHW	636857	2081232	35° 04° 58,92″ -97° 43° 42.60°	35.083032 -97.728500	1585' FNL / 1581' FEL (NE/4 SEC 16)	1248.94	1246.75'
LP-M5	LANDING POINT	636858	2081451	35' 04' 58.92" 97' 43' 39.97"	35.083033 -97.727769	1685' FNL / 1362' FEL (NE/4 SEC 16)		
P;M5	POINT OF INTERSECT	633260	2081501	35" 04" 23.34" -97" 43" 39.48"	35.073149 -97.727635	0' FSL / 1320' FEL (SE/4 SEC 16)		
внс-м5	BOTTOM HOLE LOCATION	528025	2082160	35° 03′ 31.53″ -97′ 43′ 31.73″	35.058759 -97.725479	50' FSL / 677' FEL (SE/4 SEC 21)		
X-1	ViERSEN #1→9	642314	2081296	35" 05" 52.89" -97" 43" 41.65"	35.098026 97.728237	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	840291	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	842859	2079399	35' 05' 58.33" -97' 44' 04.47"	35.099537 -97.734574	9-7N-5W:   TD: 17,012'   960' FNL / 1,870' FWL		
X5	MILLS #1-21H	628230	2078546	35' 03' 33,66" 97' 44' 15,19"	35.059349 97.737552	21-7N-5W:   TD: 16,400'   255' FSL / 990' FWL		
X-6	STRASSLE #1-28-33XH	628592	2078486	35' 03' 37.24" -97' 44' 15.90"	35,060344 -97,737749	21-7N-5W:   TD: 17,873'   617' FSL / 930' FWL		
X-7	EMERY #1R-9-16XH	643407	2082391	35' 06' 03.68" -97' 43' 28.44"	35.101022 -97.724566	97N-5W:   TD: 21,281'   418' FNL / 412' FEL	rm vor	fen ven

Certificate of Authorization No. 7318

Date Staked: 8-2-19 Date Drawn: 11-13-19



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

### PETRO LAND SERVICES SOUTH, LLC 10400 VINEYARD BLVD, SULTE C, OXIA. CITY, OXIA. 73120 \* OFFICE (405) 212-3108 Certificate of Authorization No. 7318 ехнівіт: <u>A (5 of 5)</u>

8.5x14

16-7N-5W

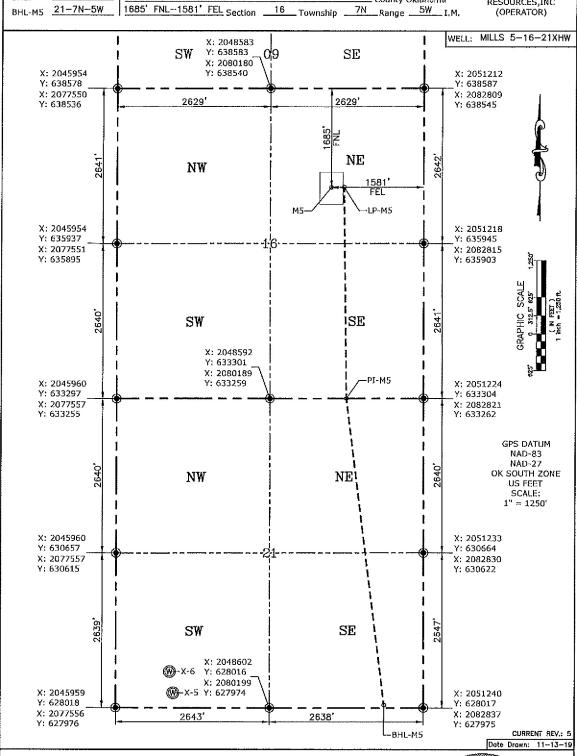
SHEET:

GRADY

County Oklahoma 7N Range 5W I.M.



CONTINENTAL RESOURCES,INC (OPERATOR)



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.

