

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

API NUMBER: 051 24734

Approval Date: 11/12/2019

Expiration Date: 05/12/2021

Horizontal Hole
Multi Unit
Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 16 Twp: 7N Rge: 5W

County: GRADY

SPOT LOCATION: ☐ NW ☐ SE ☐ SE ☐ NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 2230 1985

Lease Name: MILLS

Well No: 3-16-21XHW

Well will be 1985 feet from nearest unit or lease boundary.

Operator Name: CONTINENTAL RESOURCES INC

Telephone: 4052349020; 4052349

OTC/OCC Number: 3186 0

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

THE DUSTY AND KELLY RICKS REVOCABLE TRUST,
FREDDY CLAYTON RICKS II, TRUSTEE
PO BOX 933
BLANCHARD OK 73010

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	11238	6	
2	SYCAMORE	11351	7	
3	WOODFORD	11489	8	
4	MISENER-HUNTON	11647	9	
5	HUNTON	11647	10	

Spacing Orders: 98014
644200
593309

Location Exception Orders:

Increased Density Orders: 704972

Pending CD Numbers: 201905010
201905011
201905012

Special Orders:

Total Depth: 20222

Ground Elevation: 1214

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 360

Deep surface casing has been approved

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

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 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: 19-36754

H. SEE MEMO

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.

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: SE SW SE SW

Feet From: SOUTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 1947

Depth of Deviation: 11100

Radius of Turn: 467

Direction: 180

Total Length: 8389

Measured Total Depth: 20222

True Vertical Depth: 11869

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

Notes:

Category

Description

DEEP SURFACE CASING

10/16/2019 - G71 - 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

10/16/2019 - 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

11/12/2019 - GC2 - 16-7N-5W
X644200 WDFD
6 WELLS
NO OP. NAMED
11-7-2019

MEMO

10/16/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS (REQUIRED - WINTER CREEK WATERSHED), PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

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 24734 MILLS 3-16-21XHW

PENDING CD - 201905010	11/12/2019 - GC2 - 21-7N-5W X593309 WDFD 4 WELLS NO OP. NAMED REC. 10-28-2019 (MILLER)
PENDING CD - 201905011	11/12/2019 - GC2 - (I.O.) 16 & 21-7N-5W EST MULTIUNIT HORIZONTAL WELL X644200 MSSP, WDFD 16-7N-5W X98014 MSRH 16-7N-5W X593309 SCMR, WDFD, HNTN 21-7N-5W (MSSP, SCMR, MSRH, HNTN ASSOCIATED COMMON SOURCE OF SUPPLY TO WDFD) 33% 16-7N-5W 67% 21-7N-5W CONTINENTAL RESOURCES, INC. REC. 10-28-2019 (MILLER)
PENDING CD - 201905012	11/12/2019 - GC2 - (I.O.) 16 & 21-7N-5W X644200 MSSP, WDFD 16-7N-5W X98014 MSRH 16-7N-5W X593309 SCMR, WDFD, HNTN 21-7N-5W X165:10-3-28(C)(2)(B) WDFD MAY BE CLOSER THAN 600' TO NABORS 4-33-28XHW AND NABORS 6-33-28XHW COMPL. INT. (16-7N-5W) NCT 660' FNL, NCT 0' FSL, NCT 330' FWL COMPL. INT. (21-7N-5W) NCT 0' FNL, NCT 150' FSL, NCT 330' FWL CONTINENTAL RESOURCES, INC. REC. 10-28-2019 (MILLER)
SPACING - 593309	11/12/2019 - GC2 - (640) 21-7N-5W EST SCMR, WDFD, OTHERS EXT 150355 HNTN, OTHERS
SPACING - 644200	11/12/2019 - GC2 - (640) 16-7N-5W VAC 185876 MISSLM, OTHERS VAC OTHER EXT (VER) 593309/621907 MSSP, OTHERS EST (VER) OTHERS EST (HOR) WDFD, OTHER COMPL. INT. (WDFD) NCT 330' FB
SPACING - 98014	11/12/2019 - GC2 - (640) 16-7N-5W EST MSRH

EXHIBIT: A (1 of 4)
 SHEET: 8.5x11
 SHL: 16-7N-5W
 BHL-E3 9-7N-5W
 BHL-M3 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 3-16-9XHW

County GRADY State OK

Well: MILLS 3-16-21XHW

Operator CONTINENTAL RESOURCES, INC.

NAD-83

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
E3	EMERY 3-16-9XHW	636382	2047939	35° 04' 54.08" -97° 44' 04.17"	35.081689 -97.734491	2200' FNL / 1985' FWL (NW/4 SEC 16)	1207.61'	1209.20'
LP-E3	LANDING POINT	636382	2048044	35° 04' 54.08" -97° 44' 02.90"	35.081689 -97.734139	2200' FNL / 2090' FWL (NW/4 SEC 16)	--	--
BHL-E3	BOTTOM HOLE LOCATION	643812	2048017	35° 06' 07.57" -97° 44' 02.99"	35.102103 -97.734163	50' FNL / 2090' FWL (NW/4 SEC 09)	--	--
M3	MILLS 3-16-21XHW	636352	2047939	35° 04' 53.79" -97° 44' 04.17"	35.081607 -97.734491	2230' FNL / 1985' FWL (NW/4 SEC 16)	1207.76'	1209.20'
LP-M3	LANDING POINT	636351	2047901	35° 04' 53.78" -97° 44' 04.62"	35.081606 -97.734618	2230' FNL / 1947' FWL (NW/4 SEC 16)	--	--
BHL-M3	BOTTOM HOLE LOCATION	628066	2047906	35° 03' 31.84" -97° 44' 04.83"	35.058844 -97.734674	50' FSL / 1947' FWL (SW/4 SEC 21)	--	--
X-1	VIERSEN #1-9	642345	2049867	35° 05' 53.02" -97° 43' 40.78"	35.098060 -97.727995	9-7N-5W: TD: 12,285' 1,520' FNL / 1,341' 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-5	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	--	--
X-6	STRASSLE #1-28-33XH	628634	2046889	35° 03' 37.48" -97° 44' 17.04"	35.060411 -97.738067	21-7N-5W: TD: 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: **--**--19
 Date Drawn: 06-18-19



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

REVISIONS

No.	DATE	BY	DESCRIPTION	COMMENTS
00	06-18-19	TJW	ISSUED FOR APPROVAL	--

EXHIBIT: A (2 of 4)
 SHEET: 8.5x11
 SHL: 16-7N-5W
 BHL-E3 9-7N-5W
 BHL-M3 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 3-16-9XHW

County GRADY State OK

Well: MILLS 3-16-21XHW

Operator CONTINENTAL RESOURCES, INC.

NAD-27							EXISTING ELEVATION	DESIGN ELEVATION
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE			
E3	EMERY 3-16-9XHW	636339	2079536	35° 04' 53.84" -97° 44' 03.02"	35.081623 -97.734173	2200' FNL / 1985' FWL (NW/4 SEC 16)	1207.61'	1209.20'
LP-E3	LANDING POINT	636339	2079641	35° 04' 53.84" -97° 44' 01.76"	35.081622 -97.733822	2200' FNL / 2090' FWL (NW/4 SEC 16)	--	--
BHL-E3	BOTTOM HOLE LOCATION	643769	2079614	35° 06' 07.33" -97° 44' 01.84"	35.102037 -97.733846	50' FNL / 2090' FWL (NW/4 SEC 09)	--	--
M3	MILLS 3-16-21XHW	636309	2079536	35° 04' 53.55" -97° 44' 03.03"	35.081540 -97.734174	2230' FNL / 1985' FWL (NW/4 SEC 16)	1207.76'	1209.20'
LP-M3	LANDING POINT	636309	2079498	35° 04' 53.54" -97° 44' 03.48"	35.081540 -97.734300	2230' FNL / 1947' FWL (NW/4 SEC 16)	--	--
BHL-M3	BOTTOM HOLE LOCATION	628024	2079503	35° 03' 31.60" -97° 44' 03.68"	35.058777 -97.734357	50' FSL / 1947' FWL (SW/4 SEC 21)	--	--
X-1	VIERSEN #1-9	642303	2081463	35° 05' 52.78" -97° 43' 39.84"	35.097994 -97.727678	9-7N-5W: TD: 12,285' 1,520' FNL / 1,341' 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-5	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	9-7N-5W: TD: 21,281' 418' FNL / 412' FEL	--	--

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Prepared By:
 Petro Land Services South
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 Oklahoma City, OK 73120

CURRENT REV.: 0

Oklahoma PLS No.1196 DATE