API NUMBER: 051 24697 **OKLAHOMA CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION** P.O. BOX 52000 **OKLAHOMA CITY, OK 73152-2000** (Rule 165:10-3-1)

Approval Date: 08/20/2019 Expiration Date: 02/20/2021

Horizontal Hole Multi Unit

Oil & Gas

PERMIT TO DRILL

VELL LOCATION SPOT LOCATION		Rge: 5W	County: GRA	DY NORTH FROM	EAST			
		SECTION	LINES:	1615	465			
Lease Name:	COOLEY		Well No:	5-24-25-36XHW		Well will be	465 feet from nearest	unit or lease boundary.
Operator Name:	CONTINENTAL RESOUR	RCES INC		Telephone:	4052349020); 4052349	OTC/OCC Number:	3186 0
	ENTAL RESOURCES	INC			LAI	NNIS E. SUTTON		
PO BOX	269000					BOX 82861		
OKLAHO	MA CITY,	OK 73126	-9000			LAHOMA CITY	OK 73	148
1	Name MISSISSIPPIAN WOODFORD		Depth 11480 11725		Na 6 7 8 9 10	ame	Depth	
Spacing Orders:	147146 190352		Location Exception	Orders:		ı	Increased Density Orders:	
	170489							
	607356							
	623417							
	167964	-						
Pending CD Num	bers: 201904143 201904144						Special Orders:	
	201904144							
	201904154							
	201904153							
Total Depth: 2	25695 Ground Ele	evation: 1215	Surface	Casing: 150)	Depth	n to base of Treatable Water-E	Bearing FM: 260
Under Federal	Jurisdiction: No		Fresh Wate	r Supply Well Drille	ed: No		Surface Water use	ed to Drill: No

Approved Method for disposal of Drilling Fluids:

H. SEE MEMO

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

PERMIT NO: 19-36885

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 BED AQUIFER
Pit Location Formation: DUNCAN

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 BED AQUIFER
Pit Location Formation: DUNCAN

HORIZONTAL HOLE 1

Sec 36 Twp 6N Rge 5W County **GRADY** Spot Location of End Point: SE S2 S2 Feet From: SOUTH 1/4 Section Line: 50 Feet From: EAST 1/4 Section Line: 660

Depth of Deviation: 11248 Radius of Turn: 467 Direction: 182

Total Length: 13714

Measured Total Depth: 25695
True Vertical Depth: 12203
End Point Location from Lease,
Unit, or Property Line: 50

Notes:

Category Description

DEEP SURFACE CASING 8/14/2019 - 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

Category Description

HYDRAULIC FRACTURING

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

8/14/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 -

OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201904143 8/19/2019 - GC2 - (E.O) 24, 25 & 36-6N-5W

EST MULTIUNIT HORIZONTAL WELL

X147146 (24-6N-5W) MSSP X190352 (24-6N-5W) WDFD X167964 (25-6N-5W) MSSP X607356 (25-6N-5W) WDFD X623417 (36-6N-5W) MSSP, WDFD

(MSSP ASSOCIATED COMMON SOURCE OF SUPPLY TO WDFD)

33.33% 24-6N-5W 33.34% 25-6N-5W 33.33% 36-6N-5W

CONTINENTAL RESOURCES, INC.

REC. 8-20-2019 (NORRIS)

PENDING CD - 201904144 8/19/2019 - GC2 - (E.O.) 24, 25, & 36-6N-5W

X147146 (24-6N-5W) MSSP X190352 (24-6N-5W) WDFD X167964/170489 (25-6N-5W) MSSP X607356 (25-6N-5W) WDFD X623417 (36-6N-5W) MSSP, WDFD

X165:10-3-28(C)(2)(B) WDFD MAY BE CLOSER THAN 600' TO BOGEY 1-12X1H, PROPOSED

DOGFISH 1-31-30MXH, PROPOSED DOGFISH 1-31-30MXH*** COMPL. INT. (24N-5W) NCT 150' FNL, NCT 0' FSL, NCT 330' FEL+++ COMPL. INT. (25-6N-5W) NCT 0' FNL, NCT 0' FSL, NCT 330' FEL COMPL. INT. (36-6N-5W) NCT 0' FNL, NCT 150' FSL, NCT 330' FEL

NO OP. NAMÈD

REC. 08/20/2019 (NORRIS)

***S/B DOGFISH 1-31-30MXHR; WILL BE CORRECTED AT FINAL HEARING PER ATTORNEY FOR

OPERATOR

+++ S/B 24-6N-5W; WILL BE CORRECTED AT FINAL HEARING PER ATTORNEY FOR OPERATOR

PENDING CD - 201904153 8/20/2019 - GC2 - 24-6N-5W

> X190352 WDFD 4 WELLS NO OP. NAMED HEARING 9/3/2019

PENDING CD - 201904154 8/20/2019 - GC2 - 25-6N-5W

X607356 WDFD 4 WELLS NO OP. NAMED HEARING 9/3/2019

PENDING CD - 201904155 8/19/2019 - GC2 - 36-6N-5W

> X623417 WDFD 3 WELLS NO OP. NAMED HEARING 9/3/2019

SPACING - 147146 8/19/2019 - GC2 - (640) 24-6N-5W

EST MSSP, OTHERS **EXT OTHERS**

SPACING - 167964 8/20/2019 - GC2 - (640) 25-6N-5W

EXT OTHER

EXT 147146/153801 MSSP, OTHERS

This permit does not address the right of entry or settlement of surface damages. The duration of this permit is SIX 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.

MEMO

8/14/2019 - G71 - OCC 165:10-3-10 REQUIRES:

 Category
 Description

 SPACING - 170489
 8/19/2019 - GC2 - NPT PARAGRAPH 1 OF 167964 TO REFLECT 640 DRILLING AND SPACING UNITS.

 SPACING - 190352
 8/19/2019 - GC2 - (640) 24-6N-5W EST WDFD, OTHERS

 SPACING - 607356
 8/19/2019 - GC2 - (640) 25-6N-5W EXT 386234/190352 WDFD, OTHERS EST OTHERS

 SPACING - 623417
 8/19/2019 - GC2 - (640) 36-6N-5W EXT 607356/604782/380589 MSSP, WDFD, OTHERS

VAC OTHERS

API: 051-24697

EXHIBIT: A (1 of 2)

SHEET: 8.5×11 SHL: 24-6N-5WBHL-5 36-6N-5W



COVER SHEET

CONTINENTAL RESOURCES, INC.

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

Section 24 Township 6N Range 5W I.M. Well: COOLEY 5-24-25-36XHW

 County
 GRADY
 State
 OK
 Well:
 ——

Operator _____CONTINENTAL RESOURCES, INC.

		NAD-	-83					
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W5	COOLEY 5-24-25-36XHW	599998	2066736	34° 58' 53.67" -97° 40' 19.42"	34.981574 -97.672061	1615' FNL / 465' FEL (NE/4 SEC 24)	1214.05'	1214.56'
LP-5	LANDING POINT	599997	2066541	34° 58′ 53.67" -97° 40′ 21.77"	34.981574 -97.672713	1615' FNL / 660' FEL (NE/4 SEC 24)		
BHL-5	BOTTOM HOLE LOCATION	585785	2066565	34° 56′ 33.09″ -97° 40′ 22.03″	34.942525 -97.672787	50' FSL / 660' FEL (SE/4 SEC 36)		
X-1	COPELAND #1-36H	585941	2062724	34° 56′ 34.75″ -97° 41′ 08.16″	34.942987 -97.685600	36-6N-5W: TD: 17,395' 215' FSL / 790' FWL		
X-2	DOGFISH #1-31-30-MXH	586192	2066913	34° 56′ 37.10″ -97° 40′ 17.83″	34.943640 -97.671621	36-6N-5W: TD: 13,686' 456' FSL / 311' FEL		
X-3	DOGFISH #1-31-30-MXHR	586192	2066884	34° 56′ 37.10" -97° 40′ 18.18"	34.943640 -97.671717	36-6N-5W: TD: 21,930' 456' FSL / 340' FEL		
X-4	BRIDWELL #1-25	594993	2065887	34° 58' 04.19" -97° 40' 29.81"	34.967830 -97.674948	25-6N-5W: TD: 14,095' 1,326' FNL / 1,320' FEL		
X-5	BRIDWELL #1-25H	591245	2065365	34° 57' 27.13" -97° 40' 36.23"	34.957537 -97.676731	25-6N-5W: TD: 16,575' 220' FSL / 1,850' FEL		
X-6	COOLEY #1-24H	596083	2065295	34° 58' 14.99" -97° 40' 36.88"	34.970830 -97.676912	25-6N-5W: TD: 16,920' 233' FNL / 1,910' FEL		

		NAD-	-27					
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W5	COOLEY 5-24-25-36XHW	599956	2098333	34° 58' 53.42" -97° 40' 18.29"	34.981504 -97.671747	1615' FNL / 465' FEL (NE/4 SEC 24)	1214.05'	1214.56'
LP-5	LANDING POINT	599955	2098137	34° 58′ 53.42″ -97° 40′ 20.63″	34.981505 -97.672399	1615' FNL / 660' FEL (NE/4 SEC 24)		
BHL-5	BOTTOM HOLE LOCATION	585743	2098161	34° 56′ 32.84″ -97° 40′ 20.91″	34.942455 -97.672474	50' FSL / 660' FEL (SE/4 SEC 36)		
X-1	COPELAND #1-36H	585899	2094320	34° 56′ 34.50″ -97° 41′ 07.03″	34.942917 -97.685286	36-6N-5W: TD: 17,395' 215' FSL / 790' FWL		
X-2	DOGFISH #1-31-30-MXH	586150	2098509	34° 56′ 36.85″ -97° 40′ 16.71″	34.943569 -97.671307	36-6N-5W: TD: 13,686' 456' FSL / 311' FEL		
X-3	DOGFISH #1-31-30-MXHR	586150	2098480	34° 56′ 36.85″ -97° 40′ 17.05″	34.943570 -97.671404	36-6N-5W: TD: 21,930' 456' FSL / 340' FEL		
X-4	BRIDWELL #1-25	594951	2097484	34° 58' 03.94" -97° 40' 28.68"	34.967761 -97.674634	25-6N-5W: TD: 14,095' 1,326' FNL / 1,320' FEL		
X-5	BRIDWELL #1-25H	591203	2096961	34° 57' 26.88" -97° 40' 35.10"	34.957468 -97.676417	25-6N-5W: TD: 16,575' 220' FSL / 1,850' FEL		
X-6	COOLEY #1-24H	596041	2096892	34° 58′ 14.74″ -97° 40′ 35.75″	34.970761 -97.676598	25-6N-5W: TD: 16,920' 233' FNL / 1,910' 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	8-9-19	**-**-19	HDG	ISSUED FOR APPROVAL					
01	8-13-19	**-**-19	HDG	MOVED PAD SOUTH	REV'D ALL EXHIBITS				

EXHIBIT: <u>A (2 of 2)</u>

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

Continental

CONTINENTAL RESOURCES,INC (OPERATOR)

8.5x14 SHEET: 24-6N-5W SHL: 36-6N-5W BHL-5

GRADY County Oklahoma 1615' FNL-4<u>65' FEL</u> Section 24 Township 6N Range 5W I.M.

X: 2064557 WELL: COOLEY Y: 601602 5-24-25-36XHW 615' FNL X: 2096154 Y: 601560 2645 2645 X: 2061912 X: 2067203 Y: 601589 Y: 601616 X: 2098799 X: 2093509 Y: 601547 Y: 601574 2647, 2644 1 NE NW 465 LP-5 X: 2067200 X: 2061917 Y: 598945 Y: 598969 X: 2098796 X: 2093513 Y: 598926 Y: 598903 2644, 1 2644 SW SE 1 X: 2064564 1 Y: 596313 X: 2096160 X: 2061922 X: 2067205 Y: 596271 SCALE Y: 596300 Y: 596325 X: 2093518 X: 2098801 ₩-X-6 GRAPHIC S Y: 596258 Y: 596283 2646, 2644, ı X-4-W NW ı ΝE X: 2061931 X: 2067211 Y: 593656 Y: 593678 X: 2093528 X: 2098807 Y: 593636 Y: 593614 2644, 2647, ١ SW SE GPS DATUM NAD-27 OK SOUTH ZONE X: 2067215 X: 2061941 **₩**- X-5 Y: 591032 **US FEET** Y: 591012 SCALE: X: 2098812 X: 2093537 X: 2064578 1" = 2000Y: 590990 Y: 590970 Y: 591022 X: 2096175 Y: 590980 2647 2644, NW NE Ī X: 2061937 X: 2067220 Y: 588368 Y: 588385 X: 2093534 X: 2098817 Y: 588326 Y: 588343 2648, 2644, SW SE BHL-5 X: 2061934 X: 2067225 **₩**-X-1 Y: 585724 Y: 585737 X: 2098821 X: 2093530 2645 2646 Y: 585682 Y: 585695 X: 2064579 Y: 585730 X: 2096175 CURRENT REV.: 1 Y: 585688 Date Drawn: 8-13-19

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, 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