API NUMBER: 043 23558 Α **OKLAHOMA CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION** P.O. BOX 52000 **OKLAHOMA CITY, OK 73152-2000** (Rule 165:10-3-1)

Approval Date: 10/02/2017 04/02/2018 Expiration Date:

Horizontal Hole Oil & Gas

Amend reason: ADD FORMATION

AMEND PERMIT TO DRILL

WEST

WELL LOCATION:	Sec:	16	Гwp:	16N	Rge:	14W	County	: DEV	VEY	
SPOT LOCATION:	NW	NW	N/	N	sw	٦	FEET FROM QUARTER:	FROM	SOUTH	FR

SECTION LINES 2381 231

Lease Name: NORTH LITSCH Well No: 1-16-9XH Well will be 231 feet from nearest unit or lease boundary.

CONTINENTAL RESOURCES INC Operator OTC/OCC Number: Telephone: 4052349020: 4052349 3186 0 Name:

CONTINENTAL RESOURCES INC

PO BOX 269000

OKLAHOMA CITY. OK 73126-9000 JIMMIE LITSCH AND PEGGY LITSCH

PO BOX 85

FAY OK 73646

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

	Name	Depth	Name	Depth	ı
1	MISSISSIPPIAN	10946	6		
2	WOODFORD	12340	7		
3	HUNTON	12425	8		
4			9		
5			10		
Spacing Orders:	575659	Location Exception Orders: 66973	33	Increased Density Orders:	670671
. 0	576226	•		•	
	657634				
	646074				
	670137				

Pending CD Numbers: Special Orders:

Total Depth: 20284 Ground Elevation: 1765 Depth to base of Treatable Water-Bearing FM: 320 Surface Casing: 1500

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

Approved Method for disposal of Drilling Fluids: PIT 1 INFORMATION

Type of Pit System: ON SITE

Type of Mud System: WATER BASED

Chlorides Max: 8000 Average: 5000

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?

is located in a Hydrologically Sensitive Area.

Category of Pit: 1B Liner required for Category: 1B Pit Location is AP/TE DEPOSIT Pit Location Formation: TERRACE D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 17-33193

H SEE MEMO

E. Haul to Commercial pit facility: Sec. 31 Twn. 12N Rng. 8W Cnty. 17 Order No: 587498

PIT 2 INFORMATION

Type of Pit System: ON SITE

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: 3

Liner required for Category: 3
Pit Location is AP/TE DEPOSIT
Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 09 Twp 16N Rge 14W County **DEWEY** Spot Location of End Point: N2 NW NW NW Feet From: NORTH 1/4 Section Line: 30 Feet From: WEST 1/4 Section Line: 330

Depth of Deviation: 11863 Radius of Turn: 477

Direction: 2

Total Length: 7672

Measured Total Depth: 20284

True Vertical Depth: 12425

End Point Location from Lease,
Unit, or Property Line: 30

Notes:

Category Description

DEEP SURFACE CASING 9/22/2017 - 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 9/22/2017 - 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 - 670671 10/3/2018 - G58 - 16-16N-14W

X575659 WDFD

1 WELL

CONTINENTAL RESOURCES, INC

12/1/2017

INTERMEDIATE CASING 9/22/2017 - G71 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-

PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE

MORROW SERIES

Category Description

LOCATION EXCEPTION - 669733 10/3/2018 - G58 - (I.O.) 16 & 9-16N-14W

X646074 MSSP 16-16N-14W X575659 WDFD, HNTN 16-16N-14W X657634 MSSP 9-16N-14W X576226 WDFD, HNTN 9-16N-14W

(MSSP, HNTN ARE ADJACENT COMMON SOURCES OF SUPPLY TO WDFD) COMPL. INT. 16-16N-14W NCT 1320' FSL, NCT 0' FNL, NCT 330' FWL COMPL. INT. 9-16N-14W NCT 0' FSL, NCT 150' FNL, NCT 330' FWL

CONTINENTAL RESOURCES, INC.

11/3/2017

MEMO 9/22/2017 - G71 - PITS 1 & 2 - CONCRETE LINED PITS PER OPERATOR REQUEST, PIT 1 -

CUTTINGS WILL BE SOIL FARMED, PIT 2 - OBM RETURNED TO VENDOR, OBM CUTTINGS TO

ORDER 587498, 31-12N-8W, CANADIAN CO

SPACING - 575659 10/3/2018 - G58 - (640) 16-16N-14W

EST WDFD

EXT 99559 HNTN, MSSLM (VAC BY 646074)

SPACING - 576226 10/3/2018 - G58 - (640) 9-16N-14W

EXT 575441 WDFD

EXT 99559 HNTN, MSSLM (VAC BY 657634), OTHERS

EXT OTHERS

SPACING - 646074 10/3/2018 - G58 - (640)/(640)(HOR) 16-16N-14W

VAC 176080 CSTR, OTHERS VAC 575659 MSSLM EST (640) MSSP

EST (640)(HOR) OTHERS

SPACING - 657634 10/3/2018 - G58 - (640) 9-16N-14W

VAC OTHER

VAC 576226 MSSLM, OTHERS

EST OTHER

EXT 646074 MSSP, OTHERS

SPACING - 670137 10/3/2018 - G58 - (I.O.) 16 & 9-16N-14W

EST MULTIUNIT HORÍZONTAL WELL

X646074 MSSP 16-16N-14W X575659 WDFD, HNTN 16-16N-14W X657634 MSSP 9-16N-14W X576226 WDFD, HNTN 9-16N-14W

(MSSP, HNTN ARE ADJACENT COMMON SOURCES OF SUPPLY TO WDFD)

66.67% 9-16N-14W 33.33% 16-16N-14W

CONTINENTAL RESOURCES, INC.

11/16/2017