API NUMBER: 011 23635 A

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

Approval Date: 08/12/2016
Expiration Date: 02/12/2017

Horizontal Hole Oil & Gas

Amend reason: SURFACE CASING

AMEND PERMIT TO DRILL

| WELL LOCATION: | Sec: 19 Twp: 16N Rg | e: 12W County: BLAI | NE | | |
|--------------------------------|-----------------------|-------------------------|--------------|-------------------------------------|---|
| SPOT LOCATION: | NW SE SW SI | FEET FROM QUARTER: FROM | SOUTH FROM | EAST | |
| | | SECTION LINES: | 400 | 1710 | |
| Lease Name: | GLENWOOD PEARL FIU | Well No: | 1-19H | Well will be | 400 feet from nearest unit or lease boundary. |
| Operator Name: | CONTINENTAL RESOURCES | SINC | Telephone: 4 | 052349020; 4052349 | OTC/OCC Number: 3186 0 |
| CONTINE PO BOX 2 OKLAHOI | | | | RUSSEL IVINS RT 1 BOX 375 FAY | OK 73646 |
| Formation(s) | • | • / | | | 5 |
| | Name | Depth | | Name | Depth |
| 1 (| OSWEGO | 8590 | (| 3 | |

| | name | Depth | Name | Depth |
|-----------------|---------------|--------------------------------|------|---------------------------|
| 1 | OSWEGO | 8590 | 6 | |
| 2 | MISSISSIPPIAN | 11442 | 7 | |
| 3 | HUNTON | 11700 | 8 | |
| 4 | | | 9 | |
| 5 | | | 10 | |
| Spacing Orders: | 639375 | Location Exception Orders: 644 | 157 | Increased Density Orders: |

Pending CD Numbers: Special Orders:

Total Depth: 15857 Ground Elevation: 1647 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 170

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

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? N

Pit is located in a Hydrologically Sensitive Area.

Category of Pit: 1B

Liner required for Category: 1B
Pit Location is BED AQUIFER
Pit Location Formation: MARLOW

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 16-31470

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: 250000

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 BED AQUIFER

Pit Location Formation: MARLOW

HORIZONTAL HOLE 1

Sec 19 Twp 16N Rge 12W County BLAINE Spot Location of End Point: N2 NE NW NE Feet From: NORTH 1/4 Section Line: 50

1/4 Section Line:

1650

Depth of Deviation: 10785 Radius of Turn: 409

EAST

Direction: 1

Feet From:

Total Length: 4429

Measured Total Depth: 15857

True Vertical Depth: 11700

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

Notes:

Category Description

HYDRAULIC FRACTURING 8/9/2016 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC

FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK HTTP://FRACFOCUS.ORG/ WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME

COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE.

INTERMEDIATE CASING 8/9/2016 - 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

LOCATION EXCEPTION - 644157 8/11/2016 - G60 - (I.O.) 19-16N-12W

X639375 MSSP

SHL NCT 200' FNL, NCT 330' FEL 30-16N-12W **
POE TO BHL NCT 150' FSL, NCT 150' FNL, NCT 330' FEL

CONTINENTAL RESOURCES INC.

8-14-16

MEMO 8/9/2016 - G71 - PITS 1 & 2 - CONCRETE LINED PIT PER OPERATOR REQUEST, PIT 2 - OBM

RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

SPACING - 639375 8/11/2016 - G60 - (640)(HOR) 19-16N-12W

EST OSWG, MSSP, HNTN, OTHERS

COMPL. INT. NLT 660' FB

(COEXIST WITH SP. ORDER 399933 CSTR, MISS, HNTN; SP. ORDER 524854 CSTR, MISS, HNTN)