

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

API NUMBER: 085 21301 B

Approval Date: 03/29/2019  
Expiration Date: 09/29/2020

Horizontal Hole Oil & Gas  
Multi Unit

Amend reason: OCC CORRECTION: LE ORDER NUMBER &  
UPDATE ORDERS

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 12 Twp: 7S Rge: 1W County: LOVE  
SPOT LOCATION: ☐ SW ☐ NE ☐ NE ☐ NE FEET FROM QUARTER: FROM NORTH FROM EAST  
SECTION LINES: 430 500

Lease Name: WARREN Well No: 1-12H7X8 Well will be 430 feet from nearest unit or lease boundary.  
Operator KAISER-FRANCIS OIL COMPANY Telephone: 9184940000 OTC/OCC Number: 6390 0  
Name:

KAISER-FRANCIS OIL COMPANY  
6733 S YALE AVE  
TULSA, OK 74121-1468

WARREN EDWARD STRATE  
17559 DIXON ROAD  
MARIETTA OK 73448

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

Name	Depth	Name	Depth
1 WOODFORD	14142	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 686810 Location Exception Orders: 689824 Increased Density Orders:  
260251  
697905  
260983

Pending CD Numbers:

Special Orders:

Total Depth: 23732 Ground Elevation: 899 Surface Casing: 2000 Depth to base of Treatable Water-Bearing FM: 610

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: 3700 Average: 1500

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: ANTLERS

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

PERMIT NO: 19-36414

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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: ANTLERS

## HORIZONTAL HOLE 1

Sec 08 Twp 7S Rge 1E County LOVE

Spot Location of End Point: SE NE NE NE

Feet From: NORTH 1/4 Section Line: 430

Feet From: EAST 1/4 Section Line: 165

Depth of Deviation: 12752

Radius of Turn: 477

Direction: 90

Total Length: 10230

Measured Total Depth: 23732

True Vertical Depth: 14142

End Point Location from Lease,  
Unit, or Property Line: 165

### Notes:

#### Category

#### Description

#### DEEP SURFACE CASING

4/3/2019 - G71 - APPROVED; (1) NOTIFYING OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING (2) 2-STAGE CEMENTING TOOL TO BE SET AT 100' BELOW BTW

#### HYDRAULIC FRACTURING

4/3/2019 - 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: [OCCWEB.COM/OG/OGFORMS.HTML](http://OCCWEB.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](http://FRACFOCUS.ORG)

#### LOCATION EXCEPTION - 689824

4/5/2019 - G56 - (I.O.) 7 & 8-7S-1E  
X686810 WDFD, OTHERS 7-7S-1E  
X260251/260983 WDFD, OTHERS 8-7S-1E  
COMPL INT (7-7S-1E) NCT 165' FWL, NCT 0' FEL, NCT 330' FNL  
COMPL INT (8-7S-1E) NCT 0' FWL, NCT 165' FEL, NCT 330' FNL  
KAISER-FRANCIS OIL CO.  
1/16/2019

#### MEMO

4/3/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

This permit does not address the right of entry or settlement of surface damages.

085 21301 WARREN 1-12H7X8

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.

SPACING - 260251	4/5/2019 - G56 - (640) 8-7S-1E EXT OTHERS EXT 248343 WDFD, OTHERS
SPACING - 260983	4/5/2019 - G56 - NPT SP # 260251 TO ADD EXHIBITS
SPACING - 686810	4/5/2019 - G56 - (640) 7-7S-1E EXT 628419 WDFD
SPACING - 697905	11/26/2019 - G56 - (I.O.) 7 & 8-7S-1E ESTABLISH MULTIUNIT HORIZONTAL WELL X686810 WDFD, OTHERS 7-7S-1E X260251/260983 WDFD, OTHERS 8-7S-1E 50% 7-7S-1E 50% 8-7S-1E KAISER-FRANCIS OIL CO. 6/18/2019