

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

API NUMBER: 063 24847

Approval Date: 08/28/2018

Expiration Date: 02/28/2019

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 03 Twp: 8N Rge: 12E County: HUGHES

SPOT LOCATION: ☐ SW ☐ NE ☐ NW ☐ NW FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 583 960

Lease Name: HANS Well No: 3427-1HXW Well will be 583 feet from nearest unit or lease boundary.

Operator Name: ANTIOCH OPERATING LLC

Telephone: 4052360080

OTC/OCC Number: 23947 0

ANTIOCH OPERATING LLC
PO BOX 1557
OKLAHOMA CITY, OK 73101-1557

MIDDLE CREEK RANCH, LLC
2798 NORTH 394 RD.
DUSTIN OK 74839

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

	Name	Depth	Name	Depth
1	MAYES	4500	6	
2	WOODFORD	4665	7	
3	SYLVAN	4710	8	
4			9	
5			10	

Spacing Orders: 679808
678043

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201800430
201800431

Special Orders:

Total Depth: 15000

Ground Elevation: 744

Surface Casing: 210

Depth to base of Treatable Water-Bearing FM: 150

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: 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: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: SENORA

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

PERMIT NO: 18-34907

H. SEE MEMO

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.

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: SENORA

HORIZONTAL HOLE 1

Sec 27 Twp 9N Rge 12E County HUGHES

Spot Location of End Point: NE NW NW NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 440

Depth of Deviation: 4031

Radius of Turn: 477

Direction: 358

Total Length: 10220

Measured Total Depth: 15000

True Vertical Depth: 4710

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

Notes:

Category

Description

BOTTOM-HOLE LOCATION

8/23/2018 - G75 - 165' FNL, 440' FWL NW4 27-9N-12E PER STAKING PLAT

HYDRAULIC FRACTURING

8/1/2018 - 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

MEMO

8/1/2018 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

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.

063 24847 HANS 3427-1HXW

Category	Description
PENDING CD - 201800430	8/23/2018 - G75 - (I.O.) 34 & 27-9N-12E EST MULTIUNIT HORIZONTAL WELL X679808 MYES, WDFD, SLVN 34-9N-12E X678043 MYES, WDFD, SLVN 27-9N-12E (MYES, SLVN ADJACENT COMMON SOURCES OF SUPPLY TO WDFD) 50% 34-9N-12E 50% 27-9N-12E NO OP. NAMED REC 4-19-2018 (MINMIER)
PENDING CD - 201800431	8/23/2018 - G75 - (I.O.) 34 & 27-9N-12E X679808 MYES, WDFD, SLVN, OTHER 34-9N-12E X678043 MYES, WDFD, SLVN, OTHER 27-9N-12E SHL (34-9N-12E) SW4 ** COMPL. INT. (34-9N-12E) NCT 165' FSL, NCT 0' FNL, NCT 330' FWL COMPL. INT. (27-9N-12E) NCT 0' FSL, NCT 165' FNL, NCT 330' FWL NO OP. NAMED REC 4-19-2018 (MINMIER) ** ITD HAS SHL AS 583' FNL, 960' FWL NW4 3-8N-12E; TO BE CORRECTED AT HEARING FOR FINAL ORDER LOCATION EXCEPTION PER OPERATOR
SPACING - 678043	8/23/2018 - G75 - (640)(HOR) 27-9N-12E VAC OTHERS VAC 488826 MSSP, WDFD EXT 674927 MYES, WDFD, SLVN, OTHER POE TO BHL (MYES) NCT 660' FB POE TO BHL (SLVN) NCT 330' FB POE TO BHL (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL
SPACING - 679808	8/23/2018 - G75 - (640)(HOR) 34-9N-12E VAC 492355 MSSP, WDFD EXT 678043 MYES, WDFD, SLVN, OTHER POE TO BHL (MYES) NCT 660' FB POE TO BHL (SLVN) NCT 330' FB POE TO BHL (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL
SURFACE LOCATION	8/23/2018 - G75 - 583' FNL, 960' FWL NW4 3-8N-12E PER STAKING PLAT
TOTAL DEPTH	8/23/2018 - G75 - 15,000' PER OPERATOR



API 063-24847

