

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

API NUMBER: 063 24856 A

Approval Date: 10/25/2018
Expiration Date: 04/25/2020

Horizontal Hole Oil & Gas

Amend reason: OCC CORRECTION TO CORRECT SHL

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 26 Twp: 8N Rge: 10E County: HUGHES
SPOT LOCATION: FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 347 280

Lease Name: PRICE Well No: 2413-1HXW Well will be 315 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

HARVEY L PRICE
8121 E 129 ROAD
WETUMKA OK 74883

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

	Name	Depth	Name	Depth
1	MAYES	3985	6	
2	WOODFORD	4100	7	
3	SYLVAN	4178	8	
4			9	
5			10	

Spacing Orders: 672211
674872

Location Exception Orders: 673987

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 15000

Ground Elevation: 851

Surface Casing: 290

Depth to base of Treatable Water-Bearing FM: 240

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: CALVIN

D. One time land application -- (REQUIRES PERMIT)
H. SEE MEMO

PERMIT NO: 18-35532

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: CALVIN

HORIZONTAL HOLE 1

Sec 14 Twp 8N Rge 10E 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: 3800

Radius of Turn: 603

Direction: 10

Total Length: 10253

Measured Total Depth: 15000

True Vertical Depth: 4680

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

Notes:

Category

Description

HYDRAULIC FRACTURING

10/17/2018 - GA8 - 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

LOCATION EXCEPTION - 673987

10/24/2018 - G58 - (I.O.) 13 & 24-8N-10E
X672211 MYES, WDFD, SLVN 13 & 24-8N-10E
COMPL. INT. 24-8N-10E NCT 165' FSL, NCT 0' FNL, NCT 330' FWL
COMPL. INT. 13-8N-10E NCT 0' FSL, NCT 165' FNL, NCT 330' FWL
ANTIOCH OPERATING, LLC
2/23/2018

MEMO

10/17/2018 - GA8 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS REQUIRED PER LITTLE WEWOKA CREEK; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

Category	Description
SPACING - 672211	10/24/2018 - G58 - (640)(HOR) 13 & 24-8N-10E VAC 185892/189993 WDFD VAC 289144/303752/313113 WDFD VAC 529616 WDFD EST MYES, OTHER EXT 656698 WDFD, SLVN POE TO BHL (MYES) NCT 660' FB POE TO BHL (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL POE TO BHL (SLVN) NCT 330' FB
SPACING - 674872	10/24/2018 - G58 - (I.O.) 13 & 24-8N-10E EST MULTIUNIT HORIZONTAL WELL X672211 MYES, WDFD, SLVN 13 & 24-8N-10E 50% 13-8N-10E 50% 24-8N-10E ANTIOCH OPERATING, LLC 3/20/2018