

API NUMBER: 073 26770

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

Approval Date: 07/20/2021  
Expiration Date: 01/20/2023

Multi Unit Oil & Gas

**PERMIT TO DRILL**

WELL LOCATION: Section: 17 Township: 16N Range: 6W County: KINGFISHER

SPOT LOCATION: SW NE NE NW FEET FROM QUARTER: FROM NORTH FROM WEST  
SECTION LINES: 385 2190

Lease Name: CHURCH 1606 Well No: 3H-17X Well will be 385 feet from nearest unit or lease boundary.  
Operator Name: OVINTIV MID-CONTINENT INC. Telephone: 2812105100; 9188781290; OTC/OCC Number: 20944 0

OVINTIV MID-CONTINENT INC.  
4 WATERWAY AVE STE 100  
THE WOODLANDS, TX 77380-2764

KENNETH KARRENBROCK AND ALICIA G. KARRENBROCK,  
HUSBAND AND WIFE, AS JOINT TENANTS  
21380 N. 2880 RD.  
KINGFISHER OK 73750

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

	Name	Code	Depth
1	MISSISSIPPIAN (LESS CHESTER)	359MSNLC	7258
2	MISSISSIPPI LIME	351MSSLM	7277

Spacing Orders: 643931  
588584

Location Exception Orders: No Exceptions

Increased Density Orders: No Density Orders

Pending CD Numbers: 202100930  
202100922  
202100924  
202100928  
202100929

Working interest owners' notified: \*\*\*

Special Orders: No Special Orders

Total Depth: 18000 Ground Elevation: 1130

Surface Casing: 500

Depth to base of Treatable Water-Bearing FM: 180

Deep surface casing has been approved

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

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 21-37691  
E. Haul to Commercial pit facility Sec. 31 Twn. 12N Rng. 8W Cnty. 17 Order No: 587498  
H. (Other) SEE MEMO

**PIT 1 INFORMATION**

Type of Pit System: CLOSED Closed System Means Steel Pits  
Type of Mud System: WATER BASED  
Chlorides Max: 5000 Average: 3000  
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 not located in a Hydrologically Sensitive Area.

Category of Pit: C  
Liner not required for Category: C  
Pit Location is: NON HSA  
Pit Location Formation: BISON

**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 not located in a Hydrologically Sensitive Area.

Category of Pit: C  
Liner not required for Category: C  
Pit Location is: NON HSA  
Pit Location Formation: BISON

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.

## MULTI UNIT HOLE 1

Section: 20	Township: 16N	Range: 6W	Meridian: 1M	Total Length: 10317
County: KINGFISHER				Measured Total Depth: 18000
Spot Location of End Point: SE SE SW SE				True Vertical Depth: 8000
Feet From: <b>SOUTH</b>		1/4 Section Line: 85		End Point Location from
Feet From: <b>EAST</b>		1/4 Section Line: 1324		Lease, Unit, or Property Line: 85

## NOTES:

Category	Description
DEEP SURFACE CASING	[7/13/2021 - GC2] - 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	<p>[7/13/2021 - GC2] - OCC 165:10-3-10 REQUIRES:</p> <p>1) NOTICE SHALL BE GIVEN AT LEAST 5 BUSINESS DAYS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS ON A HORIZONTAL WELL TO OPERATORS PRODUCING WELLS WITHIN 1 MILE OF THE COMPLETION INTERVAL OF THE SUBJECT WELL. THE NOTICE TO SUCH OPERATORS SHALL CONTAIN THE INFORMATION IN FORM 6000NOO. IF THE HYDRAULIC FRACTURING OPERATIONS SCHEDULE CHANGES AFTER NOTICE HAS BEEN PROVIDED, RESULTING IN A DELAY OF OPERATIONS OF MORE THAN 5 DAYS FROM THE INITIAL NOTICE, NEW NOTICE IS REQUIRED TO BE GIVEN;</p> <p>2) NOTICE WILL BE GIVEN TO THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS. FORM 6000NHF SHALL BE USED AND IS FOUND AT THIS LINK: <a href="http://OCCEWEB.COM/OG/OGFORMS.HTML">OCCEWEB.COM/OG/OGFORMS.HTML</a>; AND,</p> <p>3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS IS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION OF HYDRAULIC FRACTURING OPERATIONS, FOUND AT <a href="http://FRACFOCUS.ORG">FRACFOCUS.ORG</a></p>
MEMO	[7/13/2021 - GC2] - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 202100922	<p>[7/19/2021 - G56] - 17-16N-6W</p> <p>X643931 MSNLC</p> <p>2 WELLS</p> <p>NO OP NAMED</p> <p>REC 7/13/2021 (DENTON)</p>
PENDING CD - 202100924	<p>[7/19/2021 - G56] - 20-16N-6W</p> <p>X588584 MSSLM</p> <p>2 WELLS</p> <p>NO OP NAMED</p> <p>REC 7/13/2021</p>
PENDING CD - 202100928	<p>[7/19/2021 - G56] - (I.O.) 17 &amp; 20-16N-6W</p> <p>EST MULTIUNIT HORIZONTAL WELL</p> <p>X588584 MSSLM, OTHER 20-16N-6W</p> <p>X643931 MSNLC, OTHER 17-16N-6W</p> <p>50% 20-16N-6W</p> <p>50% 17-16N-6W</p> <p>NO OP NAMED</p> <p>REC 7/13/2021 (DENTON)</p>
PENDING CD - 202100929	<p>[7/19/2021 - G56] - (I.O.) 17 &amp; 20-16N-6W</p> <p>X588584 MSSLM, OTHER 20-16N-6W</p> <p>X643931 MSNLC, OTHER 17-16N-6W</p> <p>COMPL. INT. (20-16N-6W) NCT 165 FSL, NCT 0 FNL, NCT 660 FEL</p> <p>COMPL. INT. (17-16N-6W) NCT 0 FSL, NCT 165 FNL, NCT 660 FEL</p> <p>NO OP NAMED</p> <p>REC 7/13/2021 (DENTON)</p>
PENDING CD - 202100930	<p>[7/19/2021 - G56] - (I.O.) 17 &amp; 20-16N-6W</p> <p>X165:10-3-28(C)(2)(B) MSSLM, MSNLC (CHURCH 1606 3H-17X)</p> <p>MAY BE CLOSER THAN 600' TO CHURCH 1H-17X, ZALABAK 2, BROOKS HENSLEY 1-17, MELISSA HENSLEY 1-17, GREENLEE 20-16-6 1H</p> <p>NO OP NAMED</p> <p>REC 7/13/2021 (DENTON)</p>

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.

SPACING - 588584	[7/19/2021 - G56] - (640)(HOR) 20-16N-6W EXT OTHER VAC 185382 MSSLM REFORM 62655/105295 MSSLM TO 640 HOR DR & SP UNIT COMPL INT NCT 660' FB
SPACING - 643931	[7/19/2021 - G56] - (640)(HOR) 17-16N-6W VAC OTHER VAC 62655/105295 MSSLM SE4 VAC 195732 MSSLM, OTHER SE4 EXT 642858 MSNLC, OTHER COMPL INT NCT 660' FB (COEXIST WITH SP # 62655/105295 W2, NE4; SP # 522340)

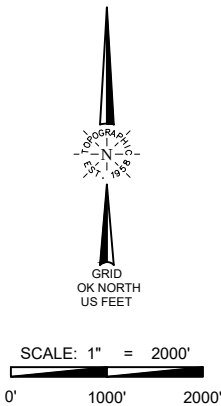
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073 26770 CHURCH 1606 3H-17X

WELL LOCATION  
CHURCH 1606 3H-17X  
OVINTIV MID-CONTINENT INC.  
SECTION 17, TOWNSHIP 16N, RANGE 6W, I.M.  
KINGFISHER COUNTY, OKLAHOMA

LEGEND

SECTION LINE  
QUARTER SECTION LINE  
16TH LINE  
PROPOSED WELL BORE



SURFACE LOCATION

385' FNL & 2190' FWL  
NAD-27  
X= 2040867  
Y= 316715  
LAT.: 35°52'12.0" N  
LONG.: 97°51'43.5" W  
LAT.: 35.870000° N  
LONG.: 97.862072° W  
ELEV.: 1130' (NGVD29)  
NAD-83  
X= 2009268  
Y= 316739  
LAT.: 35°52'12.2" N  
LONG.: 97°51'44.6" W  
LAT.: 35.870043° N  
LONG.: 97.862402° W  
ELEV.: 1130' (NAVD88)

LANDING POINT

165' FNL & 1324' FEL  
NAD-27  
X= 2042654  
Y= 316940  
LAT.: 35°52'14.2" N  
LONG.: 97°51'21.7" W  
LAT.: 35.870611° N  
LONG.: 97.856040° W  
NAD-83  
X= 2011055  
Y= 316964  
LAT.: 35°52'14.4" N  
LONG.: 97°51'22.9" W  
LAT.: 35.870654° N  
LONG.: 97.856370° W

LAST TAKE POINT

165' FSL & 1324' FEL  
NAD-27  
X= 2042665  
Y= 306703  
LAT.: 35°50'32.9" N  
LONG.: 97°51'21.8" W  
LAT.: 35.842486° N  
LONG.: 97.856054° W  
NAD-83  
X= 2011066  
Y= 306727  
LAT.: 35°50'33.1" N  
LONG.: 97°51'23.0" W  
LAT.: 35.842530° N  
LONG.: 97.856383° W

BOTTOM HOLE

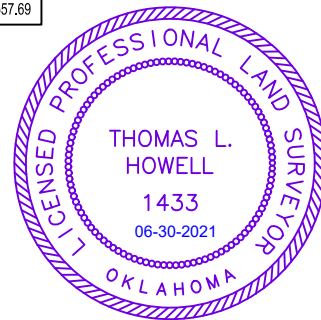
85' FSL & 1324' FEL  
NAD-27  
X= 2042665  
Y= 306623  
LAT.: 35°50'32.2" N  
LONG.: 97°51'21.8" W  
LAT.: 35.842266° N  
LONG.: 97.856055° W  
NAD-83  
X= 2011066  
Y= 306647  
LAT.: 35°50'32.3" N  
LONG.: 97°51'23.0" W  
LAT.: 35.842310° N  
LONG.: 97.856384° W

SURVEYOR'S CERTIFICATE:

I, THOMAS L. HOWELL, AN OKLAHOMA LICENSED LAND SURVEYOR AND AN AUTHORIZED AGENT OF TOPOGRAPHIC LAND SURVEYORS, DO HEREBY CERTIFY TO THE INFORMATION SHOWN HEREIN.



13800 WIRELESS WAY • OKLAHOMA CITY, OKLAHOMA 73134  
TELEPHONE: (405) 843-4847 OR (800) 654-3219  
CERTIFICATE OF AUTHORIZATION NO. 1292 LS  
WWW.TOPOGRAPHIC.COM



Thomas L. Howell  
Thomas L. Howell, P.L.S. No. 1433  
Authorized Agent of Topographic Land Surveyors

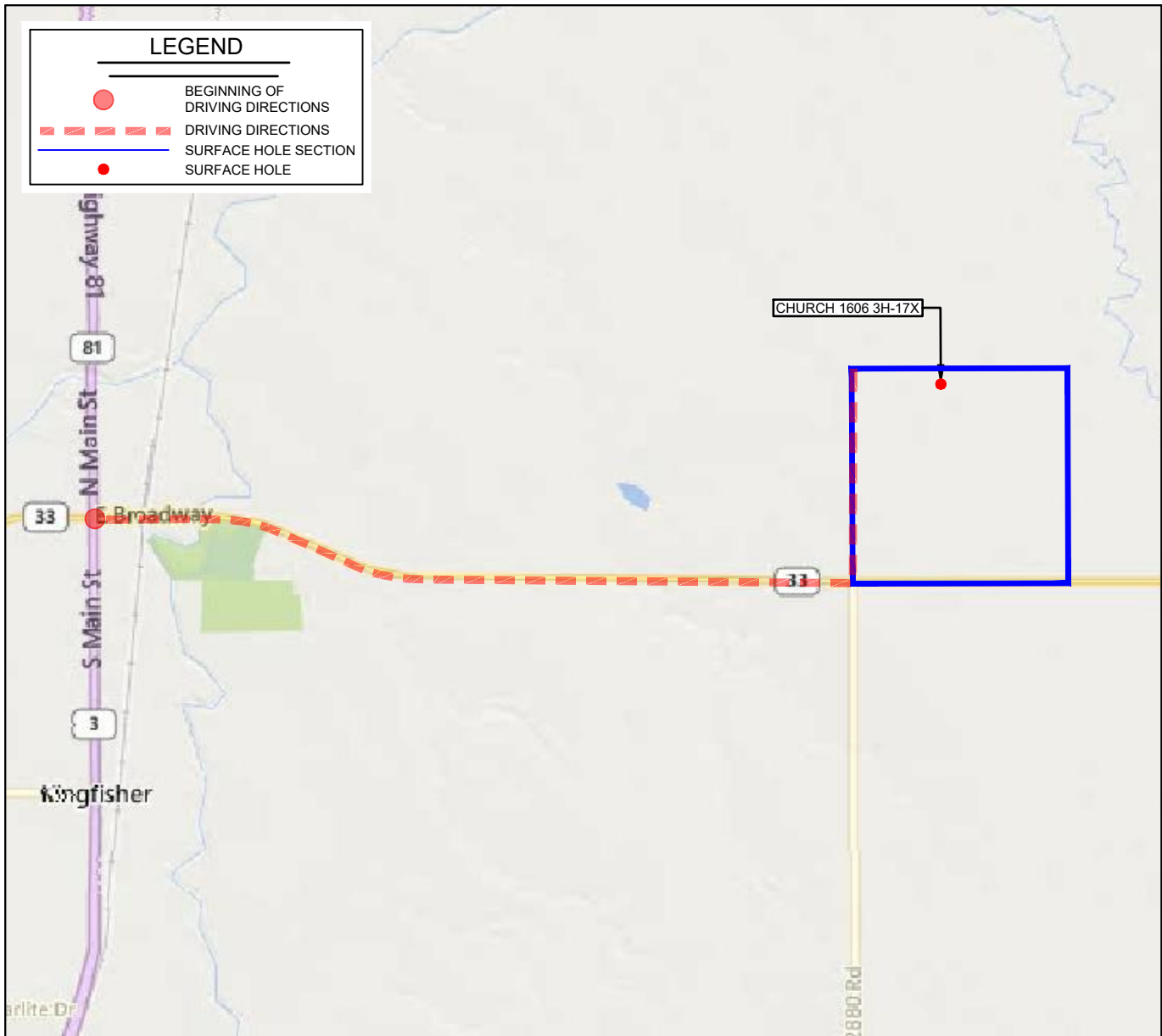
LEASE NAME & WELL NO. CHURCH 1606 3H-17X

SECTION 17 TWP 16N RGE 6W MERIDIAN I.M.  
COUNTY KINGFISHER STATE OKLAHOMA  
DESCRIPTION 385' FNL & 2190' FWL

CHURCH 1606 3H-17X	REVISION:	
	INT	DATE
DATE: 06/25/2021		
FILE:LO_CHURCH_1606_3H-17X		
DRAWN BY: KEU		
SHEET: 1 OF 1		

- NOTES:
1. ORIGINAL DOCUMENT SIZE: 8.5" X 14"
  2. ALL BEARINGS SHOWN HEREON ARE GRID OKLAHOMA COORDINATE SYSTEM OF 1983 NORTH ZONE ACCORDING TO THE RESULT OF STATIC GPS OBSERVATION PROCESSED THROUGH OPUS ON THE CONTROL POINT OCCUPIED WHILE MEASURING SAID LINES. OPUS RESULTS ARE CORRELATED TO OKLAHOMA COORDINATE SYSTEM THROUGH NORTH ZONE AND THE NORTH AMERICAN VERTICAL DATUM OF 1988.
  3. OKLAHOMA COORDINATE SYSTEM OF 1927 AND NATIONAL GEOGRAPHIC VERTICAL DATUM OF 1929 INFORMATION CONVERTED FROM OKLAHOMA COORDINATE SYSTEM OF 1983 AND NORTH AMERICAN VERTICAL DATUM OF 1988.
  4. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT/LOCATION, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY OVINTIV MID-CONTINENT INC. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT/LOCATION, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAN AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.
  5. LANDING POINT, BOTTOM HOLE, AND DRILL PATH INFORMATION PROVIDED BY OPERATOR AS SHOWN AND ARE NOT SURVEYED LOCATIONS.
  6. THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY

# VICINITY MAP



LEASE NAME & WELL NO. CHURCH 1606 3H-17X

SECTION 17 TWP 16N RGE 6W MERIDIAN I.M.

COUNTY KINGFISHER STATE OKLAHOMA

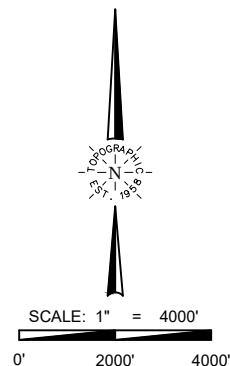
DESCRIPTION 385' FNL & 2190' FWL

DISTANCE & DIRECTION

FROM THE INTERSECTION OF OK-81 & OK-33 GO  $\pm 3.6$  MI. EAST  
ON OK-33, THEN  $\pm 1.0$  MI. NORTH ON N2880 RD TO THE  
NORTHWEST CORNER OF SECTION 17-T16N-R6W.

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY OVINTIV MID-CONTINENT INC.. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE OKLAHOMA STATE PLANE COORDINATE SYSTEM, NORTH ZONE OF THE NORTH AMERICAN DATUM 1983, U.S. SURVEY FEET AND THE NORTH AMERICAN VERTICAL DATUM OF 1988.



**TOPOGRAPHIC**  
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