

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

API NUMBER: 043 23700

Approval Date: 05/16/2019  
Expiration Date: 11/16/2020

Horizontal Hole Oil & Gas  
Multi Unit

PERMIT TO DRILL

WELL LOCATION: Sec: 08 Twp: 17N Rge: 18W County: DEWEY  
SPOT LOCATION: SW SW SE SE FEET FROM QUARTER: FROM SOUTH FROM EAST  
SECTION LINES: 250 1250

Lease Name: BIG HAMMER 17/20 AO Well No: 1HC Well will be 250 feet from nearest unit or lease boundary.  
Operator Name: MEWBOURNE OIL COMPANY Telephone: 9035612900 OTC/OCC Number: 6722 0

MEWBOURNE OIL COMPANY  
PO BOX 7698  
TYLER, TX 75711-7698

MICHAEL H. MYERS & VERONICA K. MYERS  
207609 EAST 690 ROAD  
CAMARGO OK 73835

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

Name	Depth	Name	Depth
1 CLEVELAND	9005	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 110589  
676460

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201901430  
201901431

Special Orders:

Total Depth: 19437

Ground Elevation: 2023

Surface Casing: 1999

Depth to base of Treatable Water-Bearing FM: 410

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 25000 Average: 7500

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 19-36588

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 20 Twp 17N Rge 18W County DEWEY

Spot Location of End Point: SE SE SW SE

Feet From: SOUTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 1450

Depth of Deviation: 8516

Radius of Turn: 573

Direction: 182

Total Length: 10021

Measured Total Depth: 19437

True Vertical Depth: 9080

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

Notes:

Category

Description

DEEP SURFACE CASING

5/7/2019 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

5/7/2019 - 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: [OCCEWEB.COM/OG/OGFORMS.HTML](http://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](http://FRACFOCUS.ORG)

MEMO

5/7/2019 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

PENDING CD - 201901430

5/15/2019 - G75 - (I.O.) 17 & 20-17N-18W  
EST MULTIUNIT HORIZONTAL WELL  
X676460 CLVD 17-17N-18W  
X110589 CLVD 20-17N-18W  
50% 17-17N-18W  
50% 20-17N-18W  
NO OP. NAMED  
REC 3-25-2019 (P. PORTER)

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.

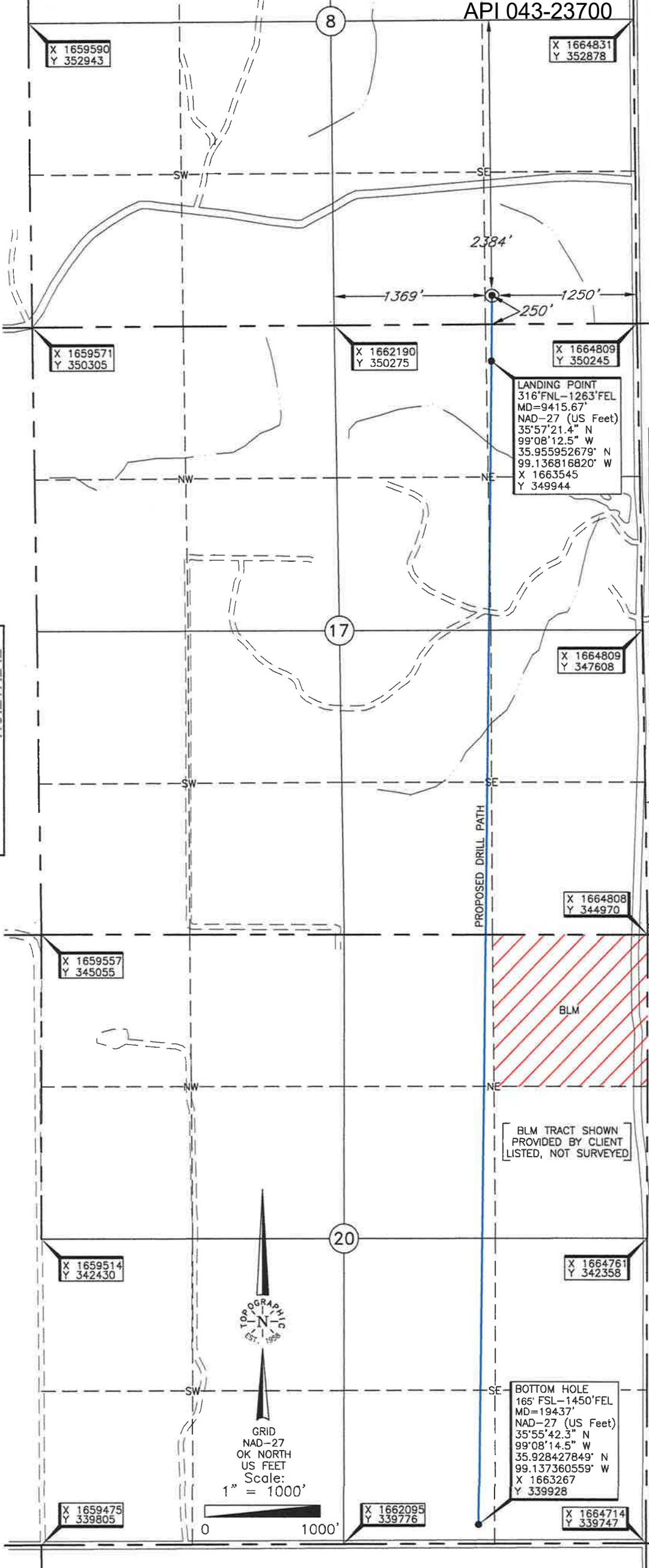
Category	Description
PENDING CD - 201901431	5/15/2019 - G75 - (I.O.) 17 & 20-17N-18W X676460 CLVD 17-17N-18W X110589 CLVD 20-17N-18W COMPL. INT. (17-17N-18W) NCT 165' FNL, NCT 0' FSL, NCT 1100' FEL COMPL. INT. (20-17N-18W) NCT 0' FNL, NCT 165' FSL, NCT 1100' FEL NO OP. NAMED REC 3-25-2019 (P. PORTER)
SPACING - 110589	5/15/2019 - G75 - (640) 20-17N-18W EXT OTHERS EXT 83421 CLVD, OTHERS
SPACING - 676460	5/15/2019 - G75 - (640)(HOR) 17-17N-18W EST CLVD POE TO BHL NLT 660' FB

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Office of the Conservation Division as to when Surface Casing will be run.

LANDING POINT, BOTTOM HOLE AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED.

13600 Wireless Way, Okla. City, OK 73134 \* LOCAL (405) 843-4847 \* OUT OF STATE (800) 654-3219  
**TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA**  
 DEWEY Certificate of Authorization No. 1293 LS  
 County, Oklahoma  
 Section 8 Township 17N Range 18W 1M

API 043-23700



**LANDING POINT**  
 316'FNL-1263'FEL  
 MD=9415.67'  
 NAD-27 (US Feet)  
 35°57'21.4" N  
 99°08'12.5" W  
 35.955952679' N  
 99.136816820' W  
 X 1663545  
 Y 349944

**BOTTOM HOLE**  
 165' FSL-1450'FEL  
 MD=19437'  
 NAD-27 (US Feet)  
 35°55'42.3" N  
 99°08'14.5" W  
 35.928427849' N  
 99.137360559' W  
 X 1663267  
 Y 339928

**ELEVATION:**  
 2023' Gr. at Stake

Operator: MEWBOURNE OIL COMPANY  
 Lease Name: BIG HAMMER 17/20 AO  
 Topography & Vegetation: Loc. fell in sloped gross pasture  
 Good Drill Site? Yes  
 Reference Stakes or Alternate Location: Stakes Set None  
 Best Accessibility to Location: From East off county road  
 Distance & Direction: From Hwy Jct or Town From Webb, OK, go ±2.0 mi. North to the SE Cor. of Sec. 8-T17N-R18W

DATUM: NAD-27  
 LAT: 35°57'27.0"N  
 LONG: 99°08'12.4"W  
 LAT: 35.957506090° N  
 LONG: 99.136786108° W  
 STATE PLANE  
 COORDINATES: (US Feet)  
 ZONE: OK NORTH  
 X: 1663561  
 Y: 350510

(This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy.)

Date of Drawing: May 03, 2019  
 Project # 126282 Date Staked: Feb. 09, 2018 AC

**CERTIFICATE:**

I, Thomas L. Howell, an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein.

Thomas L. Howell  
 Oklahoma Lic. No. 1433

