

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

API NUMBER: 043 23675

Approval Date: 12/07/2018  
Expiration Date: 06/07/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 16 Twp: 17N Rge: 18W County: DEWEY  
SPOT LOCATION:  SW  SE  SE  SW FEET FROM QUARTER: FROM SOUTH FROM WEST  
SECTION LINES: 100 2000

Lease Name: BIG HAMMER 21/28 Well No: CN#1HC Well will be 100 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

COLLIER FARMS LLC  
221500 EAST 740 740 ROAD  
TALOGA OK 73667

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

Name	Depth	Name	Depth
1 CLEVELAND	9050	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 83421  
244559

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201808216  
201808215

Special Orders:

Total Depth: 19398

Ground Elevation: 2041

Surface Casing: 1999

Depth to base of Treatable Water-Bearing FM: 360

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

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: 18-35806

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 28 Twp 17N Rge 18W County DEWEY

Spot Location of End Point: S2 S2 S2 SW

Feet From: SOUTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 1320

Depth of Deviation: 8591

Radius of Turn: 569

Direction: 184

Total Length: 9913

Measured Total Depth: 19398

True Vertical Depth: 9150

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

Notes:

Category

Description

DEEP SURFACE CASING

11/18/2018 - G71 - 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

11/18/2018 - 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](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

11/18/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201808215

12/7/2018 - G56 - (I.O.) 21 & 28-17N-18W  
ESTABLISH MULTIUNIT HORIZONTAL WELL  
X244559 CLVD 21-17N-18W  
X83421 CLVD 28-17N-18W  
50% 21-17N-18W  
50% 28-17N-18W  
NO OP NAMED  
REC 10/29/2018 (JACKSON)

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

043 23675 BIG HAMMER 21/28 CN#1HC

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.

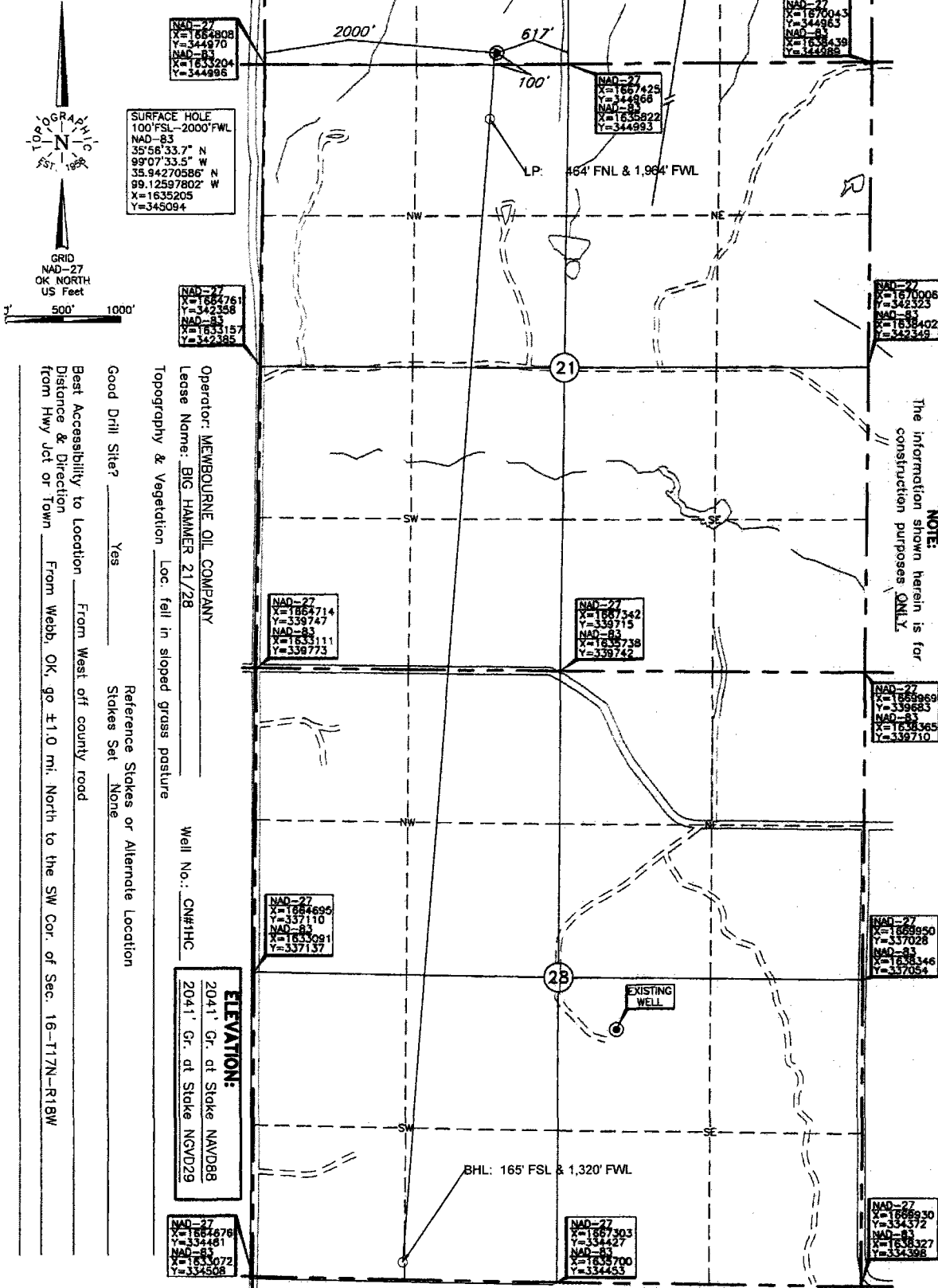
Category	Description
PENDING CD - 201808216	12/7/2018 - G56 - (I.O.) 21 & 28-17N-18W X244559 CLVD 21-17N-18W X83421 CLVD 28-17N-18W COMPL INT (21-17N-18W) NCT 165' FNL, NCT 0' FSL, NCT 1100' FWL COMPL INT (28-17N-18W) NCT 0' FNL, NCT 165' FSL, NCT 1100' FWL NO OP NAMED REC 10/29/2018 (JACKSON)
SPACING - 244559	12/7/2018 - G56 - (640) 21-17N-18W EST OTHER EXT 110589 CLVD, OTHERS
SPACING - 83421	12/7/2018 - G56 - (640) 28-17N-18W EXT OTHERS EST OTHERS EST CLVD

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.

**TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA**  
 13800 Wireless Way, Okla. City, OK, 73134 (405) 843-4847 • OUT OF STATE (800) 654-3219  
 Certificate of Authorization No. 1293 LS

DEWEY County, Oklahoma

100' FSL - 2000' FWL Section 16 Township 17N Range 18W I.M.



**SURFACE HOLE**  
 100' FSL - 2000' FWL  
 NAD-83  
 35°56'33.7" N  
 99°07'33.5" W  
 35.94270886" N  
 99.12597802" W  
 X=1635205  
 Y=345094

NAD-27  
 X=1664761  
 Y=344958  
 NAD-83  
 X=1633157  
 Y=342385

NAD-27  
 X=1670043  
 Y=344963  
 NAD-83  
 X=1635439  
 Y=342388

NAD-27  
 X=1667429  
 Y=344968  
 NAD-83  
 X=1635922  
 Y=344993

NAD-27  
 X=1670006  
 Y=342323  
 NAD-83  
 X=1635402  
 Y=342349

NAD-27  
 X=1664714  
 Y=339747  
 NAD-83  
 X=1633111  
 Y=339773

NAD-27  
 X=1667342  
 Y=339715  
 NAD-83  
 X=1635738  
 Y=339742

NAD-27  
 X=1669969  
 Y=339663  
 NAD-83  
 X=1633365  
 Y=339710

NAD-27  
 X=1664696  
 Y=337110  
 NAD-83  
 X=1633091  
 Y=337137

NAD-27  
 X=1669950  
 Y=337028  
 NAD-83  
 X=1633346  
 Y=337054

NAD-27  
 X=1664676  
 Y=334481  
 NAD-83  
 X=1633072  
 Y=334508

NAD-27  
 X=1667303  
 Y=334427  
 NAD-83  
 X=1635700  
 Y=334453

NAD-27  
 X=1669930  
 Y=334372  
 NAD-83  
 X=1633327  
 Y=334398

Operator: MEWBOURNE OIL COMPANY  
 Lease Name: BIG HAMMER 21/28  
 Topography & Vegetation: Loc. fall in sloped grass pasture  
 Good Drill Site? Yes  
 Best Accessibility to Location: From West off county road  
 Distance & Direction: From Webb, OK, go ±1.0 mi. North to the SW Cor. of Sec. 16-T17N-R18W  
 Reference Stakes or Alternate Location: Stakes Set None

Well No.: CN#1HC  
**ELEVATION:**  
 2041' Gr. at Stake NAVD88  
 2041' Gr. at Stake NCVD29

DATUM: NAD-27  
 LAT: 35°56'33.6" N  
 LONG: 99°07'32.2" W  
 LAT: 35.942659148" N  
 LONG: 99.125602275" W  
 STATE PLANE  
 COORDINATES: (US Feet)  
 ZONE: OK NORTH  
 X: 1666808  
 Y: 345067

Date of Drawing: May 17, 2018  
 Invoice # 293959 Date Staked: Jan. 15, 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

