

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

API NUMBER: 045 23783

Approval Date: 02/28/2019  
Expiration Date: 08/28/2020

Horizontal Hole Oil & Gas  
Multi Unit

PERMIT TO DRILL

WELL LOCATION: Sec: 21 Twp: 22N Rge: 26W County: ELLIS  
SPOT LOCATION:  W2  W2  SW  NW FEET FROM QUARTER: FROM NORTH FROM WEST  
SECTION LINES: 1980 325

Lease Name: SHEFFIELD 21/28 LM Well No: #2HC Well will be 325 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

IVA ANN BARBER  
45031 S. COUNTY ROAD 170  
SHATTUCK OK 73858

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

Name	Depth	Name	Depth
1 PENNSYLVANIAN MISSOURI SERIES	7380	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 174054 Location Exception Orders: Increased Density Orders: 691818  
679610 692141

Pending CD Numbers: 201900080 Special Orders:  
201900081

Total Depth: 15612 Ground Elevation: 2361 Surface Casing: 1999 Depth to base of Treatable Water-Bearing FM: 690

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 BED AQUIFER

Pit Location Formation: OGALLALA

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 19-36194

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: OGALLALA

HORIZONTAL HOLE 1

Sec 28 Twp 22N Rge 26W County ELLIS

Spot Location of End Point: SW SW SW SW

Feet From: SOUTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 325

Depth of Deviation: 6864

Radius of Turn: 569

Direction: 180

Total Length: 7854

Measured Total Depth: 15612

True Vertical Depth: 7400

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

Notes:

Category

Description

DEEP SURFACE CASING

1/29/2019 - 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

1/29/2019 - 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)

INCREASED DENSITY - 691818

2/27/2019 - GB1 - 21-22N-26W & FRAC SEC 20-22N-26W  
X174054 PMOS  
1 WELL  
NO OP. NAMED  
2/21/2019

INCREASED DENSITY - 692141

2/27/2019 - GB1 - 28-22N-26W & FRAC SEC 29-22N-26W  
X679610 PMOS  
1 WELL  
NO OP. NAMED  
2/27/2019

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
MEMO	1/29/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 201900080	2/27/2019 - GB1 - (I.O.) 21-22N-26W & FRAC SEC 20-22N-26W & 28-22N-26W & FRAC SEC 29-22N-26W EST MULTIUNIT HORIZONTAL WELL X174054 PMOS 21-22N-26W & FRAC SEC 20-22N-26W X679610 PMOS 28-22N-26W & FRAC SEC 29-22N-26W 34% 21-22N-26W & FRAC SEC 20-22N-26W 66% 28-22N-26W & FRAC SEC 29-22N-26W NO OP. NAMED REC. 1/28/2019 (MILLER)
PENDING CD - 201900081	2/27/2019 - GB1 - (I.O.) 21-22N-26W & FRAC SEC 20-22N-26W & 28-22N-26W & FRAC SEC 29-22N-26W X174054 PMOS 21-22N-26W & FRAC SEC 20-22N-26W X679610 PMOS 28-22N-26W & FRAC SEC 29-22N-26W *** COMPL. INT. (21-22N-26W & FRAC SEC 20-22N-26W) NCT 0' FSL, NCT 1980' FNL, NCT 300' FWL COMPL. INT. (28-22N-26W & FRAC SEC 29-22N-26W) NCT 165' FSL, NCT 0' FNL, NCT 300' FWL NO OP. NAMED REC. 1/28/2019 (MILLER)  *** SP. ORDER # 679610 WAS LISTED INCORRECT TWICE AND CORRECT ONCE; WILL BE CORRECTED AT FINAL HEARING
SPACING - 174054	2/27/2019 - GB1 - (668)(IRR UNIT) 21-22N-26W & FRAC SEC 20-22N-26W EST OTHER EXT OTHER EXT 136792 PMOS, OTHERS
SPACING - 679610	2/27/2019 - GB1 - (640)(HOR)(IRR UNIT) 28-22N-26W & FRAC SEC 29-22N-26W VAC 204096 CLVD, CGGV EST PMOS POE TO BHL NLT 660' FB
SURFACE HOLE LOCATION	2/28/2019 - GB1 - SHL 330' FROM FRAC SEC 20 BOUNDARY/TEXAS STATE LINE PER PLAT; SHL 325' FROM SEC 21/20 BOUNDARY PER PLAT

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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.

35-045-23783

8800 WIRELESS WAY, OKLA. CITY, OKLA. 73134 \* LOCAL (405) 843-4847 \* OUT OF STATE (800) 654-3219  
Certificate of Authorization No. 1293 LS

ELLIS County, Oklahoma  
1980' FNL - 325' FWL Section 21 Township 22N Range 26W I.M.

THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY



GRID NAD-27  
OK NORTH  
US FEET  
Scale: 1" = 1000'

1" = 1000'



Operator: MEWBOURNE OIL COMPANY

Lease Name: SHEFFIELD 21/28

Well No.: LM #2HC

**ELEVATION:**  
2361' Gr. at Stake

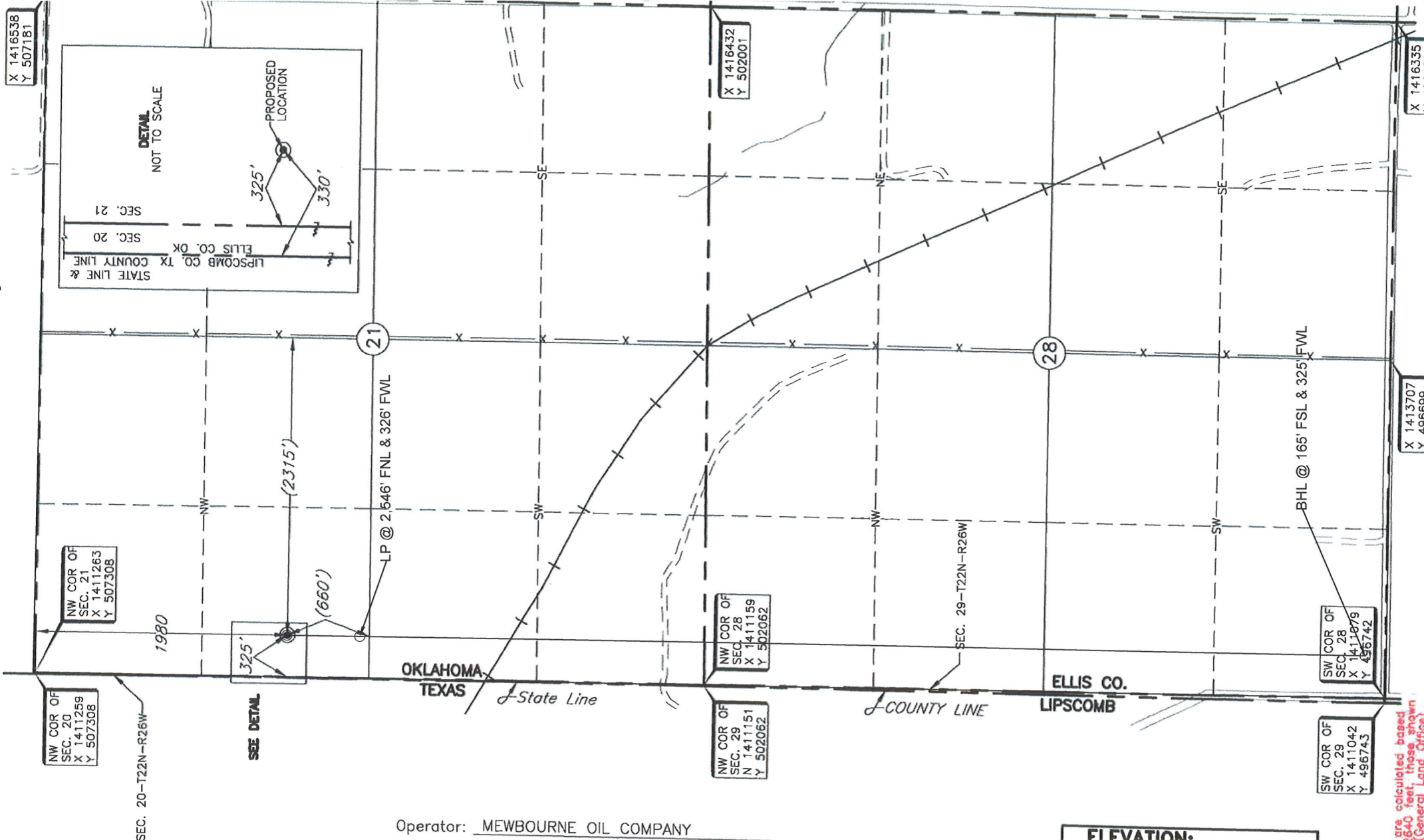
Topography & Vegetation Loc. fell in sloped grass pasture

Good Drill Site? Yes

Reference Stakes or Alternate Location  
Stakes Set None

Best Accessibility to Location From NE off county road

Distance & Direction  
from Hwy Jct or Town From St. Hwy. 15/US Hwy. 283 in Shattuck, OK, go ±7.0 mi. North on St. Hwy. 15/US Hwy. 283, then ±5.5 mi. West to the NE Cor. of Sec. 21-T22N-R26W.



Distances shown in (parenthesis) are calculated based upon the Quarter Section being 2640 feet; those shown in brackets are based on GLO (General Land Office) distances and have NOT been measured on the ground.

DATUM: NAD-27  
LAT: 36°22'17.6" N  
LONG: 99°59'56.0" W  
LAT: 36.371557654° N  
LONG: 99.998885209° W  
STATE PLANE  
COORDINATES (US FEET):  
ZONE: OK NORTH  
X: 1411548  
Y: 505321

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

Invoice # 307254 Date of Drawing: Dec. 05, 2018 AC  
Date Staked: Dec. 04, 2018

**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

