

API NUMBER: 045 23863

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

Approval Date: 05/31/2022
Expiration Date: 11/30/2023

Multi Unit Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Section: 05 Township: 18N Range: 24W County: ELLIS

SPOT LOCATION: ☐ NW ☐ SW ☐ SE ☐ SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 650 1565

Lease Name: THELMA 8/17 CN Well No: 2H Well will be 650 feet from nearest unit or lease boundary.
Operator Name: MEWBOURNE OIL COMPANY Telephone: 9035612900 OTC/OCC Number: 6722 0

MEWBOURNE OIL COMPANY
3620 OLD BULLARD RD
TYLER, TX 75701-8644

PATRICIA KRIER AND GERALD KRIER, JOINT TENANTS
974 CR X
ASHLAND KS 67831

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

| Name | Code | Depth |
|------------|---------|-------|
| 1 CHEROKEE | 404CHRK | 9880 |

Spacing Orders: 599494
585788

Location Exception Orders: No Exceptions

Increased Density Orders: No Density

Pending CD Numbers: 202201902
202201900
202201904
202201905

Working interest owners' notified: ***

Special Orders: No Special

Total Depth: 21505 Ground Elevation: 2264

Surface Casing: 1999

Depth to base of Treatable Water-Bearing FM: 560

Deep surface casing has been approved

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

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 22-38329

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: 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: AP/TE DEPOSIT

Pit Location Formation: TERRACE

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

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: 17 | Township: 18N | Range: 24W | Meridian: IM | Total Length: 9957 |
| County: ELLIS | | | | Measured Total Depth: 21505 |
| Spot Location of End Point: W2 | SE | SE | SW | True Vertical Depth: 9880 |
| Feet From: SOUTH | 1/4 Section Line: 330 | | | End Point Location from |
| Feet From: WEST | 1/4 Section Line: 2200 | | | Lease, Unit, or Property Line: 330 |

NOTES:

| Category | Description |
|------------------------|--|
| DEEP SURFACE CASING | [5/20/2022 - 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>[5/20/2022 - 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: OCCWEB.COM/OG/OGFORMS.HTML; 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 FRACFOCUS.ORG</p> |
| MEMO | [5/20/2022 - GC2] - CLOSED SYSTEM=STEEL PITS (REQUIRED - MOSQUITO CREEK), OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT |
| PENDING CD - 202201900 | <p>[5/31/2022 - G56] - (E.O.) 8 & 17-18N-24W EST MULTIUNIT HORIZONTAL WELL X599494 CHRK 8-18N-24W X585788 CHRK 17-18N-24W 50% 8-18N-24W 50% 17-18N-24W NO OP NAMED REC 5/26/2022 (HUBER)</p> |
| PENDING CD - 202201902 | <p>[5/31/2022 - G56] - (E.O.) 8 & 17-18N-24W X599494 CHRK 8-18N-24W X585788 CHRK 17-18N-24W COMPL INT (8-18N-24W) NCT 330' FNL, NCT 0' FSL, NCT 1320' FWL/FEL COMPL INT (17-18N-24W) NCT 0' FNL, NCT 330' FSL, NCT 1320' FWL/FEL NO OP NAMED REC 5/26/2022 (HUBER)</p> |
| PENDING CD - 202201904 | <p>[5/31/2022 - G56] - (E.O.) 8-18N-24W X599494 CHRK 2 WELLS NO OP NAMED REC 5/26/2022 (HUBER)</p> |
| PENDING CD - 202201905 | <p>[5/31/2022 - G56] - (E.O.) 17-18N-24W X585788 CHRK 2 WELLS NO OP NAMED REC 5/26/2022 (HUBER)</p> |
| SPACING - 585788 | <p>[5/31/2022 - G56] - (640)(HOR) 17-18N-24W EST CHRK, OTHERS COMPL INT NCT 660' FB</p> |
| SPACING - 599494 | <p>[5/31/2022 - G56] - (640)(HOR) 8-18N-24W EST CHRK, OTHERS COMPL INT NCT 660' FB (COEXIST WITH PROD NON HOR DR & SP UNITS, SUPERCEDE NON DEVELOPED NON HOR DR & SP UNITS)</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.

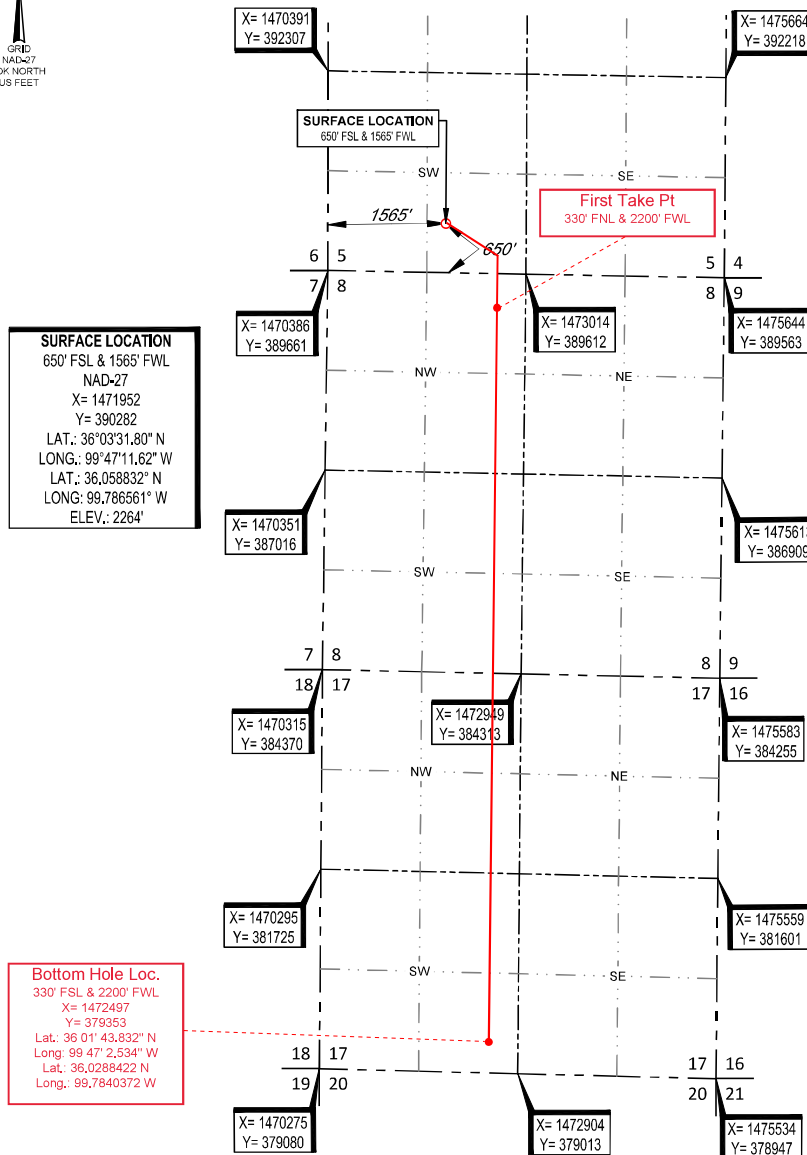


SCALE: 1" = 2000'
0' 1000' 2000'

WELL LOCATION
THELMA 8/17 CN #2H
MEWBOURNE OIL COMPANY
SECTION 5, TOWNSHIP 18N, RANGE 24W, I.M.
ELLIS COUNTY, OKLAHOMA

LEGEND

SECTION LINE
QUARTER SECTION LINE
16TH LINE



SURFACE LOCATION
650' FSL & 1565' FWL
NAD-27
X= 1471952
Y= 390282
LAT.: 36°03'31.80" N
LONG.: 99°47'11.62" W
LAT.: 36.058832° N
LONG.: 99.786561° W
ELEV.: 2264'

Bottom Hole Loc.
330' FSL & 2200' FWL
X= 1472497
Y= 379353
Lat.: 36 01' 43.832" N
Long: 99 47' 2.534" W
Lat.: 36.0288422 N
Long.: 99.7840372 W



Note:
Surface hole and section corner information surveyed in the field and certified by Topographic Co.
Drill path information has not been surveyed, reviewed, or certified by Topographic Co.

SURVEYOR'S CERTIFICATE:

I, STAN W. LLOYD, AN OKLAHOMA LICENSED LAND SURVEYOR AND AN AUTHORIZED AGENT OF TOPOGRAPHIC CO., DO HEREBY CERTIFY TO THE INFORMATION SHOWN HEREIN.

Stan W. Lloyd
Stan W. Lloyd, P.L.S. No. 1809
Authorized Agent of Topographic Co.

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
13800 WIRELESS WAY • OKLAHOMA CITY, OKLAHOMA 73134
TELEPHONE: (405) 843-4847 OR (800) 654-3219
FAX: (405) 843-0975
CERTIFICATE OF AUTHORIZATION NO. 1292 LS
WWW.TOPOGRAPHIC.COM

LEASE NAME & WELL NO. _____
THELMA 8/17 CN #2H
SECTION 5 TWP 18N RGE 24W MERIDIAN I.M.
COUNTY ELLIS STATE OKLAHOMA
DESCRIPTION 650' FSL & 1565' FWL

| THELMA 8/17 CN #2H | REVISION: | | NOTES: |
|-----------------------------|-----------|------|---|
| | INT | DATE | |
| DATE: 05/18/2022 | | | 1. ORIGINAL DOCUMENT SIZE: 8.5" X 14" 2. ALL BEARINGS SHOWN HEREON ARE GRID ACCORDING TO THE RESULTS OF STATIC GPS OBSERVATIONS PROCESSED THROUGH OPUS ON THE CONTROL POINT OCCUPIED WHILE MEASURING SAID LINES, OPUS RESULTS ARE CORRELATED TO OKLAHOMA, NORTH ZONE, NAD 27 - HORIZONTAL AND THE NATIONAL GEODETIC VERTICAL DATUM OF 1929. 3. 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 MEWBOURNE OIL COMPANY, 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 PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY. 4. THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY |
| FILE: LO_THELMA_8-17_CN_#2H | | | |
| DRAWN BY: KEU | | | |
| SHEET: 1 OF 2 | | | |