

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

API NUMBER: 011 23982

Approval Date: 04/10/2018
Expiration Date: 10/10/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 30 Twp: 17N Rge: 12W County: BLAINE
SPOT LOCATION: SW SW SE SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 210 1275

Lease Name: LITTLE WING Well No: 1HX-3019 Well will be 210 feet from nearest unit or lease boundary.
Operator Name: MEP OPERATING LLC Telephone: 7134521661 OTC/OCC Number: 24146 0

MEP OPERATING LLC
333 CLAY ST STE 2800
HOUSTON, TX 77002-4168

JERRY & CHERYL HOUSE REVOCABLE TRUST
257608 E. 790 ROAD
WATONGA OK 73772

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

| Name | Depth | Name | Depth |
|------|---------------|-------|-------|
| 1 | MISSISSIPPIAN | 10900 | 6 |
| 2 | | | 7 |
| 3 | | | 8 |
| 4 | | | 9 |
| 5 | | | 10 |

Spacing Orders: 601286

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201802601
201802604
201802605

Special Orders:

Total Depth: 21430 Ground Elevation: 1515 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 90

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: 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 ALLUVIAL

Pit Location Formation: ALLUVIUM

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 18-34180

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 ALLUVIAL

Pit Location Formation: ALLUVIUM

HORIZONTAL HOLE 1

Sec 19 Twp 17N Rge 12W County BLAINE

Spot Location of End Point: NE NE NW NE

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 1500

Depth of Deviation: 10355

Radius of Turn: 573

Direction: 358

Total Length: 10175

Measured Total Depth: 21430

True Vertical Depth: 10900

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

Notes:

Category

Description

DEEP SURFACE CASING

4/10/2018 - 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

4/10/2018 - 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; 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

INTERMEDIATE CASING

4/10/2018 - G71 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE MORROW SERIES

MEMO

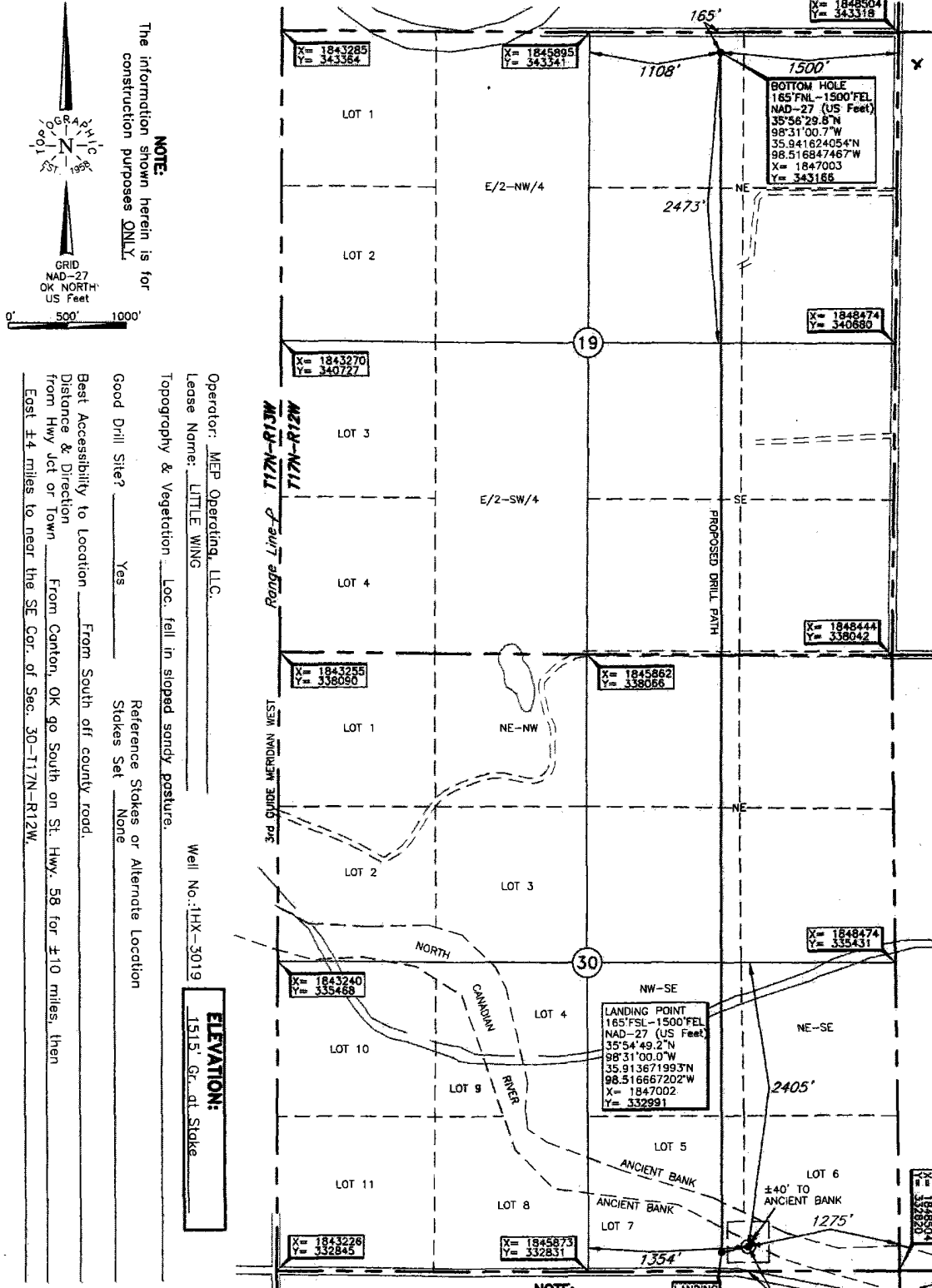
4/10/2018 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS (REQUIRED - NORTH CANADIAN RIVER); PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

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 - 201802601 | 4/10/2018 - G75 - (E.O.)(640) 19-17N-12W VAC 107641 CSTR VAC 328454 MSSLM EXT 601286 MSSP, OTHER NO OP. NAMED REC 4-9-2018 (MINMIER) |
| PENDING CD - 201802604 | 4/10/2018 - G75 - (E.O.) 30 & 19-17N-12W EST MULTIUNIT HORIZONTAL WELL X601286 MSSP, OTHER 30-17N-12W X201802601 MSSP, OTHER 19-17N-12W 50% 30-17N-12W 50% 19-17N-12W NO OP. NAMED REC 4-9-2018 (MINMIER) |
| PENDING CD - 201802605 | 4/10/2018 - G75 - (E.O.) 30 & 19-17N-12W X601286 MSSP, OTHER 30-17N-12W X201802601 MSSP, OTHER 19-17N-12W COMPL. INT. (30-17N-12W) NCT 150' FSL, NCT 0' FNL, NCT 330' FEL COMPL. INT. (19-17N-12W) NCT 0' FSL, NCT 150' FNL, NCT 330' FEL NO OP. NAMED REC 4-9-2018 (MINMIER) |
| SPACING - 601286 | 4/10/2018 - G75 - (640) 30-17N-12W EXT OTHER EXT 592471 MSSP, OTHERS |
| SURFACE LOCATION | 4/10/2018 - G75 - 210' FSL, 1275' FEL SE4 30-17N-12W PER STAKING PLAT |

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

BLAINE County, Oklahoma
 210° FSL-1275° FEL Section 30 Township 17N Range 12W I.M.



NOTE:
 The information shown herein is for construction purposes ONLY.

Operator: MEP Operating, LLC
 Lease Name: LITTLE WING
 Topography & Vegetation: Loc. fell in sloped sandy posture.
 Good Drill Site? Yes
 Reference Stakes or Alternate Location: Stakes Set None
 Best Accessibility to Location: From South off county road.
 Distance & Direction from Hwy Jct or Town: From Canton, OK go South on St. Hwy. 58 for ±10 miles, then East ±4 miles to near the SE Cor. of Sec. 30-17N-R12W.

Well No.: 1HX-3019
ELEVATION:
1515' Gr. at Stake

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

NOTE: Location fell in FEMA Zone X
 Revision 9 Date of Drawing: Mar. 14, 2018
 Invoice # 290023 Date Staked: Mar. 12, 2018

DATUM: NAD-27
 LAT: 35°54'49.7"N
 LONG: 98°30'57.3"W
 LAT: 35.913796308°N
 LONG: 98.515909334°W
 STATE PLANE COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 1847226
 Y: 333035

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

