

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

API NUMBER: 003 23313

Approval Date: 05/01/2018
Expiration Date: 11/01/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 30 Twp: 27N Rge: 11W County: ALFALFA
SPOT LOCATION: SE SE SE SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 263 2468

Lease Name: JOY 30-27-11 Well No: 1H Well will be 263 feet from nearest unit or lease boundary.
Operator Name: BCE-MACH LLC Telephone: 4052528151 OTC/OCC Number: 24174 0

BCE-MACH LLC
14201 WIRELESS WAY STE 300
OKLAHOMA CITY, OK 73134-2512

JOY HADWIGER
1923 SOUTH FLORENCE PLACE
TULSA OK 74104

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	5389	6
2			7
3			8
4			9
5			10

Spacing Orders: 614499

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201803076
201803077

Special Orders:

Total Depth: 10087

Ground Elevation: 1226

Surface Casing: 340

Depth to base of Treatable Water-Bearing FM: 90

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 25000 Average: 8000

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

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-34322
H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

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.

HORIZONTAL HOLE 1

Sec 30 Twp 27N Rge 11W County ALFALFA

Spot Location of End Point: N2 N2 N2 N2

Feet From: NORTH 1/4 Section Line: 150

Feet From: EAST 1/4 Section Line: 2640

Depth of Deviation: 4788

Radius of Turn: 573

Direction: 5

Total Length: 4398

Measured Total Depth: 10087

True Vertical Depth: 5414

End Point Location from Lease,
Unit, or Property Line: 150

Notes:

Category

Description

HYDRAULIC FRACTURING

4/26/2018 - 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

PENDING CD - 201803076

4/30/2018 - G57 - 30-27N-11W
X614499 MSSP
1 WELL
NO OP. NAMED
HEARING 5-14-2018

PENDING CD - 201803077

4/30/2018 - G57 - (E.O.) 30-27N-11W
X614499 MSSP
COMPL. INT. NCT 150' FSL, NCT 150' FNL, NCT 1320' FEL & FWL
BCE-MACH LLC.
REC 4-24-2018 (NORRIS)

SPACING - 614499

4/30/2018 - G57 - (640) 30-27-11W
VAC 100063 MSSCT, MSSLM, OTHER
EXT 593207 MSSP, OTHERS

SURFACE CASING

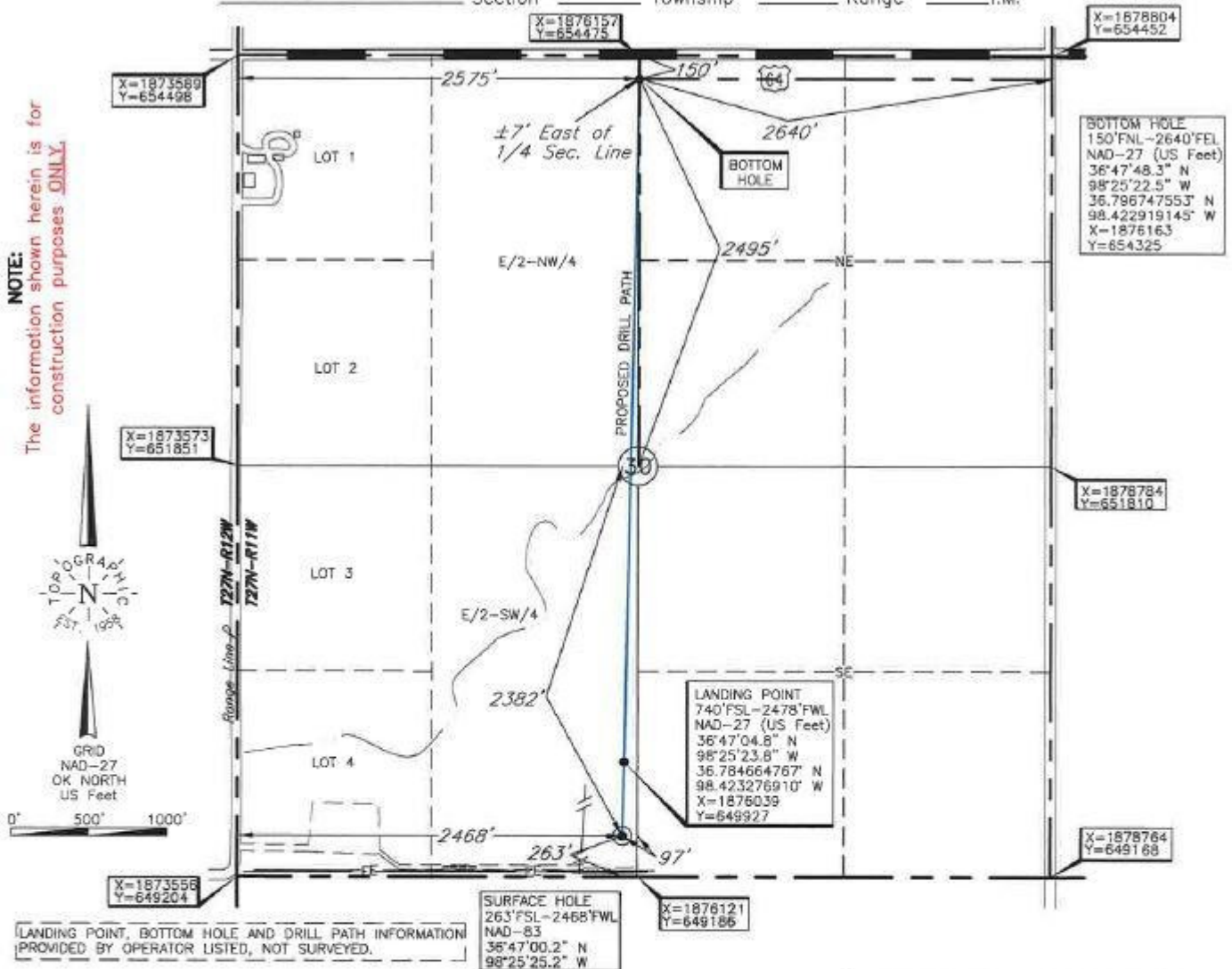
4/26/2018 - G71 - MIN. 250' PER ORDER 37123

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
 ALFALFA County, Oklahoma

API: 003 23313

263'FSL - 2468'FWL Section 30 Township 27N Range 11W I.M.



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

ELEVATION:
 1226' Gr. at level pad NAVD88
 1225' Gr. at level pad NGVD29

Operator: MACH RESOURCES
 Lease Name: JOY 30-27-11 Well No.: 1H
 Topography & Vegetation Loc. fell on level pad, SE of existing well, ±256' East of N-S pipeline, ±224' North of power line
 Good Drill Site? Yes Reference Stakes or Alternate Location Stakes Set None
 Best Accessibility to Location From West off county road
 Distance & Direction from Hwy Jct or Town From Cherokee, OK, go ±3.0 mi. North, then ±4.0 mi. West, then ±1.0 m. South to the SW Cor. of Sec. 30-T27N-R11W

DATUM: NAD-27
 LAT: 36°47'00.1"N
 LONG: 98°25'23.9"W
 LAT: 36.783354981° N
 LONG: 98.423315685° W
 STATE PLANE
 COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 1876026
 Y: 649450

Date of Drawing: Apr. 24, 2018
 Invoice # 292266 Date Staked: Apr. 20, 2018 AC

CERTIFICATE:

I, Thomas L. Howell on 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

