

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

API NUMBER: 003 23371

Approval Date: 04/15/2019

Expiration Date: 10/15/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 22 Twp: 27N Rge: 11W County: ALFALFA
SPOT LOCATION: ☐ NW ☐ NE ☐ NE ☐ NW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 220 2180

Lease Name: RC BROWN 22-27-11 Well No: 4H Well will be 220 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

RC BROWN
19235 NOBLE ROAD
ALVA OK 73717

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	5200	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 603257

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201902179
201901644

Special Orders:

Total Depth: 10200 Ground Elevation: 1186 Surface Casing: 250 Depth to base of Treatable Water-Bearing FM: 110

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: 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

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 19-36410
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 22 Twp 27N Rge 11W County ALFALFA

Spot Location of End Point: SW SE SE SW

Feet From: SOUTH 1/4 Section Line: 150

Feet From: WEST 1/4 Section Line: 2180

Depth of Deviation: 4779

Radius of Turn: 537

Direction: 180

Total Length: 4578

Measured Total Depth: 10200

True Vertical Depth: 5305

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

Notes:

Category

Description

HYDRAULIC FRACTURING

4/11/2019 - 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; 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 - 201901644

4/15/2019 - G56 - (I.O.) 22-27N-11W
X603257 MSSP
COMPL INT NCT 150' FSL, NCT 150' FNL, NCT 1320' FWL
NO OP NAMED
REC 4/8/2019 (THOMAS)

PENDING CD - 201902179

4/15/2019 - G56 - 22-27N-11W
X603257 MSSP
1 WELL
NO OP NAMED
HEARING 5/6/2019

SPACING - 603257

4/15/2019 - G56 - (640) 22-27N-11W
VAC 217778 MSCT, MSSLM, OTHERS
EXT/REFORM OTHER
EST MSSP, OTHERS

SURFACE CASING

4/11/2019 - G71 - MIN. 250' PER ORDER# 37123

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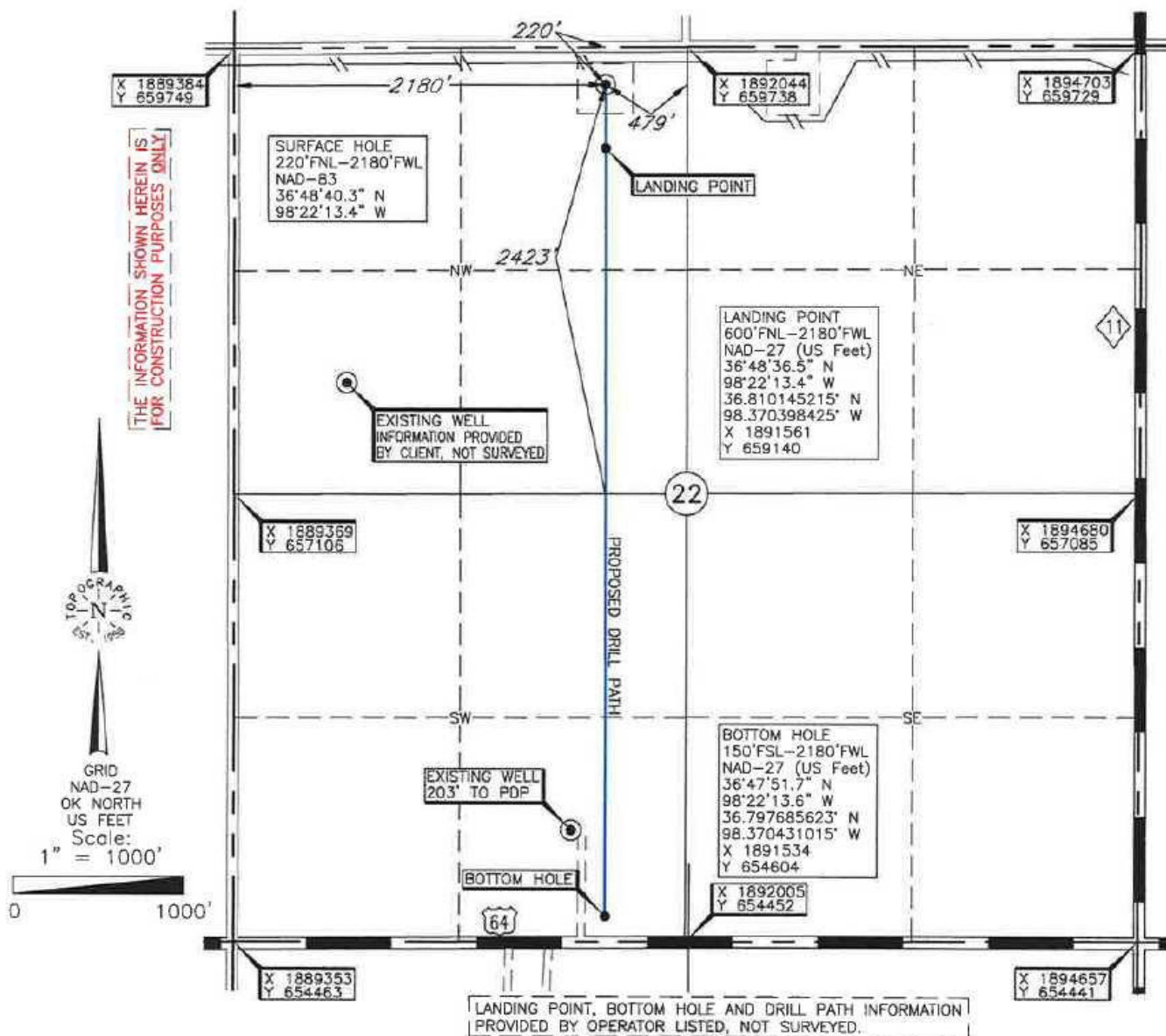
003 23371 RC BROWN 22-27-11 4H

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA13800 Wireless Way, Okla. City, OK. 73134 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
Certificate of Authorization No. 1293 L5

ALFALFA

County, Oklahoma

220'FNL - 2180'FWL Section 22 Township 27N Range 11W I.M.



Operator: MACH RESOURCES

Lease Name: RC BROWN 22-27-11

Well No.: 4H

ELEVATION:

1186' Gr. at Stake NAVD88

1185' Gr. at Stake NGVD29

Topography & Vegetation Loc. fell in level field, ±130' South of E-W saltwater pipeline

Good Drill Site? Yes

Reference Stakes or Alternate Location
Stakes Set None

Best Accessibility to Location From North off county road

Distance & Direction

from Hwy Jct or Town From Cherokee, OK, go ±3.0 mi. North, then ±1.0 mi. West to
the NW Cor. of Sec. 22-T27N-R11W

DATUM: NAD-27
LAT: 36°48'40.3"N
LONG: 98°22'13.4"W
LAT: 36.811188961° N
LONG: 98.370395417° W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1891563
Y: 659520

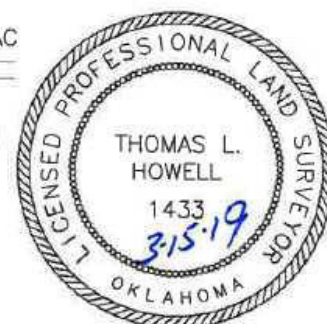
Date of Drawing: Mar. 14, 2019
Project # 123594 Date Staked: Mar. 14, 2019

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

Oklahoma Lic. No. 1433



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