

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

API NUMBER: 003 23337

Approval Date: 09/12/2018

Expiration Date: 03/12/2019

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 08 Twp: 28N Rge: 11W County: ALFALFA

SPOT LOCATION: FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 175 1980

Lease Name: ALVA 5-28-11 Well No: 1H Well will be 175 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

CITY OF ALVA
415 4TH STREET
ALVA OK 73717

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	5016	6
2			7
3			8
4			9
5			10

Spacing Orders: 594547

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201806759

Special Orders:

Total Depth: 10275

Ground Elevation: 1255

Surface Casing: 400

Depth to base of Treatable Water-Bearing FM: 200

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: 45000 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 BED AQUIFER

Pit Location Formation: BISON

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

PERMIT NO: 18-35264

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 05 Twp 28N Rge 11W County ALFALFA

Spot Location of End Point: N2 N2 NE NW

Feet From: NORTH 1/4 Section Line: 150

Feet From: WEST 1/4 Section Line: 1980

Depth of Deviation: 4611

Radius of Turn: 573

Direction: 360

Total Length: 4764

Measured Total Depth: 10275

True Vertical Depth: 5095

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

Notes:

Category

Description

HYDRAULIC FRACTURING

8/31/2018 - 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 - 201806759

9/4/2018 - G57 - 5-28N-11W
X594547 MSSP
COMPL. INT. NCT 150' FSL, NCT 150' FNL, NCT 1320' FWL
NO OP. NAMED
REC 9-10-2018 (JACKSON)

SPACING - 594547

9/4/2018 - G57 - (640) 5-28N-11W
VAC 526452 MSCT, MSSLM, OTHERS
REFORM OTHERS
EST MSSP

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

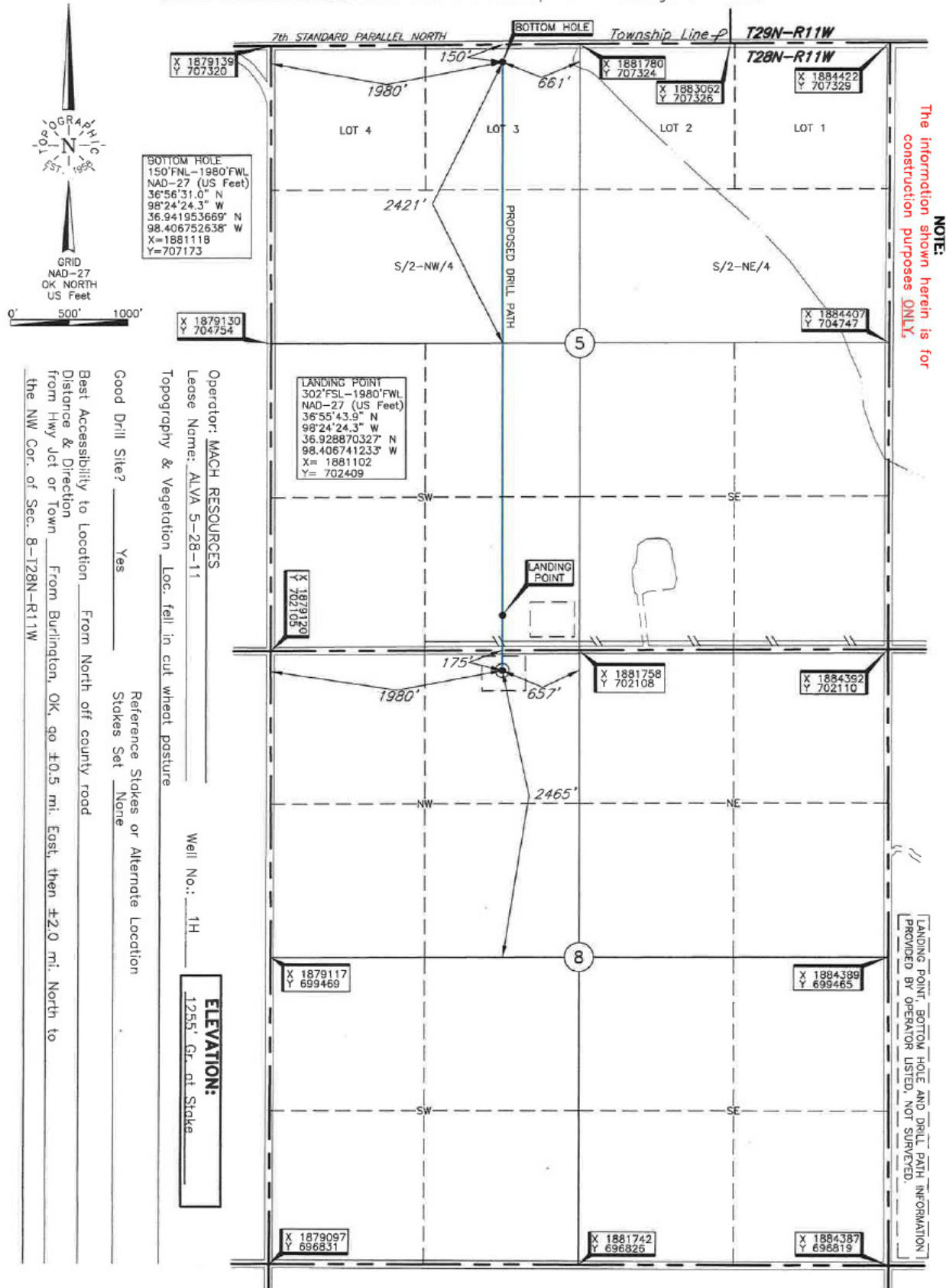
13800 Wireless Way, Okla. City, OK. 73134 (405) 843-4847 * OUT OF STATE (800) 654-3219
Certificate of Authorization No. 1293 LS

API:003 23337

ALFALFA

County, Oklahoma

175'FNL - 1980'FWL Section 8 Township 28N Range 11W I.M.



Operator: MACH RESOURCES
Lease Name: ALVA 5-28-11
Topography & Vegetation Loc. fell in cut wheat pasture
Good Drill Site? Yes
Best Accessibility to Location From North off county road
Distance & Direction from Hwy Jct or Town From Burlington, OK, go ±0.5 mi. East, then ±2.0 mi. North to the NW Cor. of Sec. 8-128N-R11W
Reference Stakes or Alternate Location
Stakes Set None
Well No.: 1H
ELEVATION: 1255' Gr. at Stake

DATUM: NAD-27
LAT: 36°55'39.2"N
LONG: 98°24'24.3"W
LAT: 36.927560242° N
LONG: 98.406740091° W
STATE PLANE COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1881100
Y: 701932

Date of Drawing: Aug. 16, 2018
Invoice # 297063A Date Staked: Aug. 06, 2018 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

Thomas L. Howell
Oklahoma Lic. No. 1433

