

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

API NUMBER: 151 24573

Approval Date: 08/08/2019  
Expiration Date: 02/08/2021

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 18 Twp: 29N Rge: 13W County: WOODS  
SPOT LOCATION:  SW  SE  SE  SW FEET FROM QUARTER: FROM SOUTH FROM WEST  
SECTION LINES: 325 2185

Lease Name: EWING 18-29-13 Well No: 2H Well will be 325 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

STEVEN R. EWING AND MICHAEL EWING  
1954 S MAIN ST  
WICHITA KS 67213-

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	4875	6
2			7
3			8
4			9
5			10

Spacing Orders: 150484 Location Exception Orders: 697692 Increased Density Orders: 698983

Pending CD Numbers: Special Orders:

Total Depth: 9150 Ground Elevation: 1369 **Surface Casing: 310** Depth to base of Treatable Water-Bearing FM: 260

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

PIT 1 INFORMATION

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 BED AQUIFER

Pit Location Formation: CEDAR HILLS

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 19-36794  
H. CLOSED SYSTEM = STEEL PITS (REQUIRED - DRIFTWOOD CREEK)

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 18 Twp 29N Rge 13W County WOODS

Spot Location of End Point: N2 N2 NE NW

Feet From: NORTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 1980

Depth of Deviation: 4165

Radius of Turn: 484

Direction: 358

Total Length: 4225

Measured Total Depth: 9150

True Vertical Depth: 4935

End Point Location from Lease,  
Unit, or Property Line: 50

Notes:

Category

Description

HYDRAULIC FRACTURING

7/23/2019 - 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](http://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](http://FRACFOCUS.ORG)

INCREASED DENSITY - 698983

8/8/2019 - GB1 - 18-29N-13W  
X150484 MSSP  
1 WELL  
BCE-MACH LLC  
7/10/2019

LOCATION EXCEPTION - 697692

8/8/2019 - GB1 - (I.O.) 18-29N-13W  
X150484 MSSP  
COMPL. INT. NCT 150' FSL, NCT 0' FNL, NCT 1320' FWL  
BCE-MACH LLC  
6/13/2019

SPACING - 150484

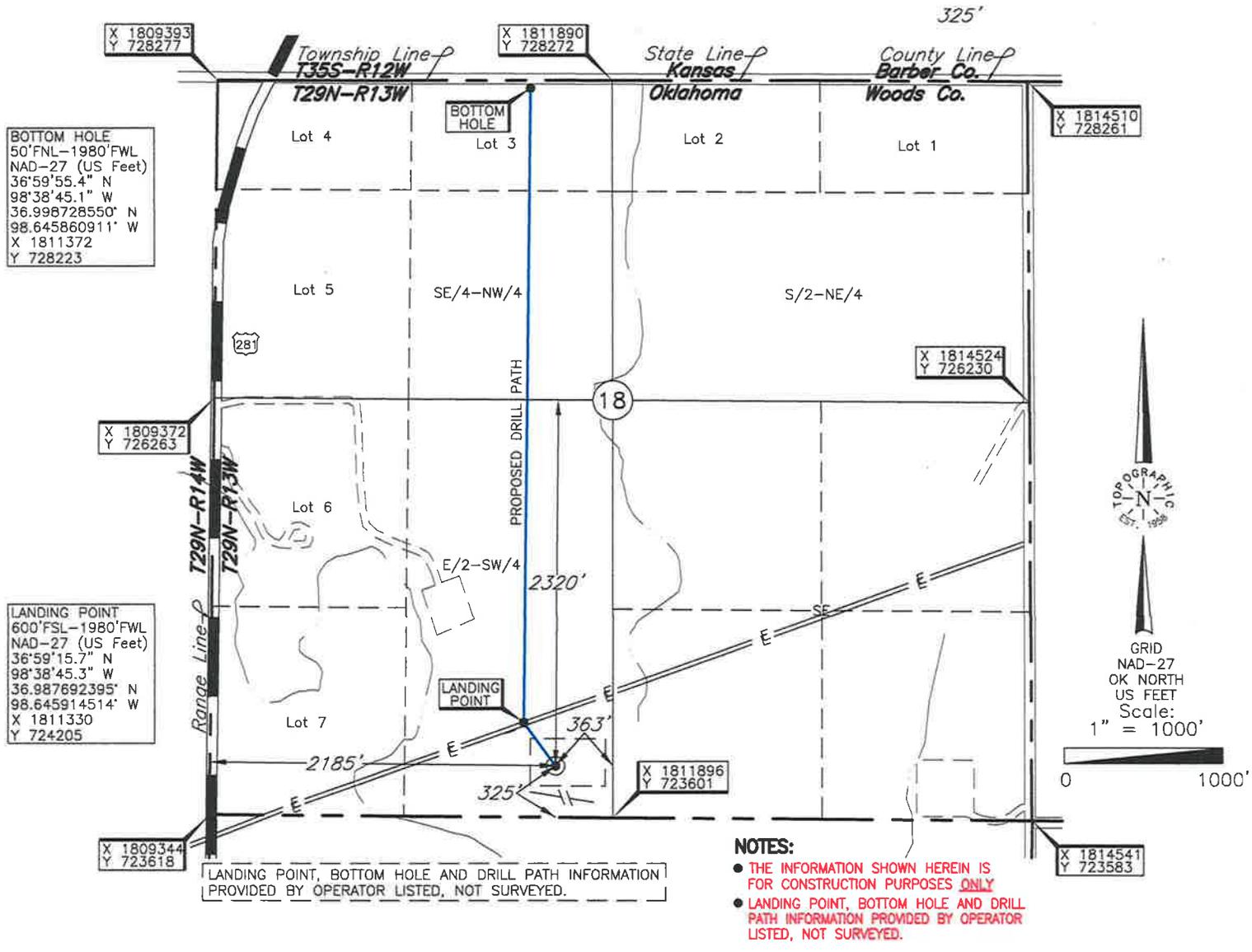
8/8/2019 - GB1 - (640) 18-29N-13W  
EXT 137625 MSSP, OTHERS

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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

WOODS County, Oklahoma

325' FSL - 2185' FWL Section 18 Township 29N Range 13W I.M.



**BOTTOM HOLE**  
 50' FNL - 1980' FWL  
 NAD-27 (US Feet)  
 36°59'55.4" N  
 98°38'45.1" W  
 36.998728550° N  
 98.645860911° W  
 X 1811372  
 Y 728223

**LANDING POINT**  
 600' FSL - 1980' FWL  
 NAD-27 (US Feet)  
 36°59'15.7" N  
 98°38'45.3" W  
 36.987692395° N  
 98.645914514° W  
 X 1811330  
 Y 724205

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

**NOTES:**  
 • THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY  
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Operator: MACH RESOURCES

Lease Name: EWING 18-29-13 Well No.: 2H **ELEVATION:** 1369' Gr. at Stake

Topography & Vegetation Loc. fell in level wheat field, SW corner of pad is ±40' North of NW-SE pipeline

Good Drill Site? Yes Reference Stakes or Alternate Location Stakes Set None

Best Accessibility to Location From West off US Hwy. 281

Distance & Direction from Hwy Jct or Town From Alva, OK, go ±13.0 mi. North on US Hwy. 281 to the SW Cor. of Sec. 18-T29N-R13W

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

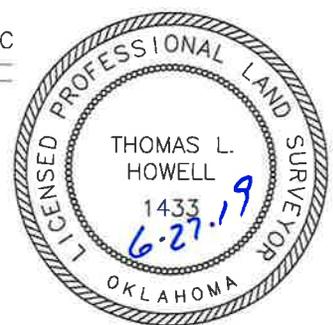
DATUM: NAD-27  
 LAT: 36°59'13.0"N  
 LONG: 98°38'42.8"W  
 STATE PLANE  
 COORDINATES: (US Feet)  
 ZONE: OK NORTH  
 X: 1811532  
 Y: 723929

Date of Drawing: Jun. 26, 2019  
 Project # 127621 Date Staked: Jun. 21, 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

*Thomas L. Howell*  
 Oklahoma Lic. No. 1433



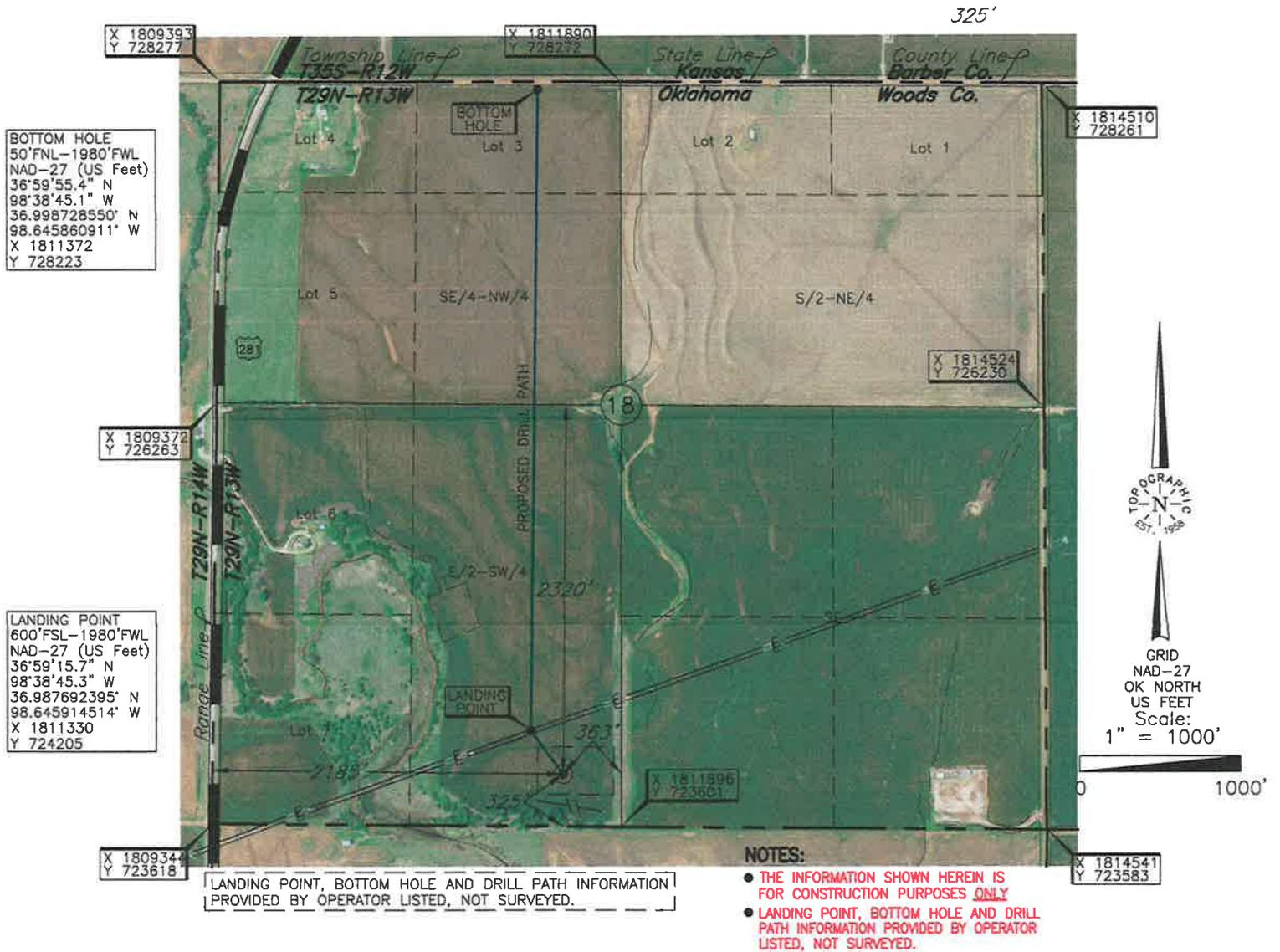
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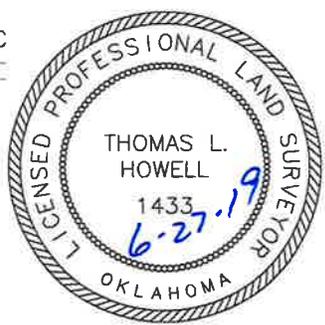
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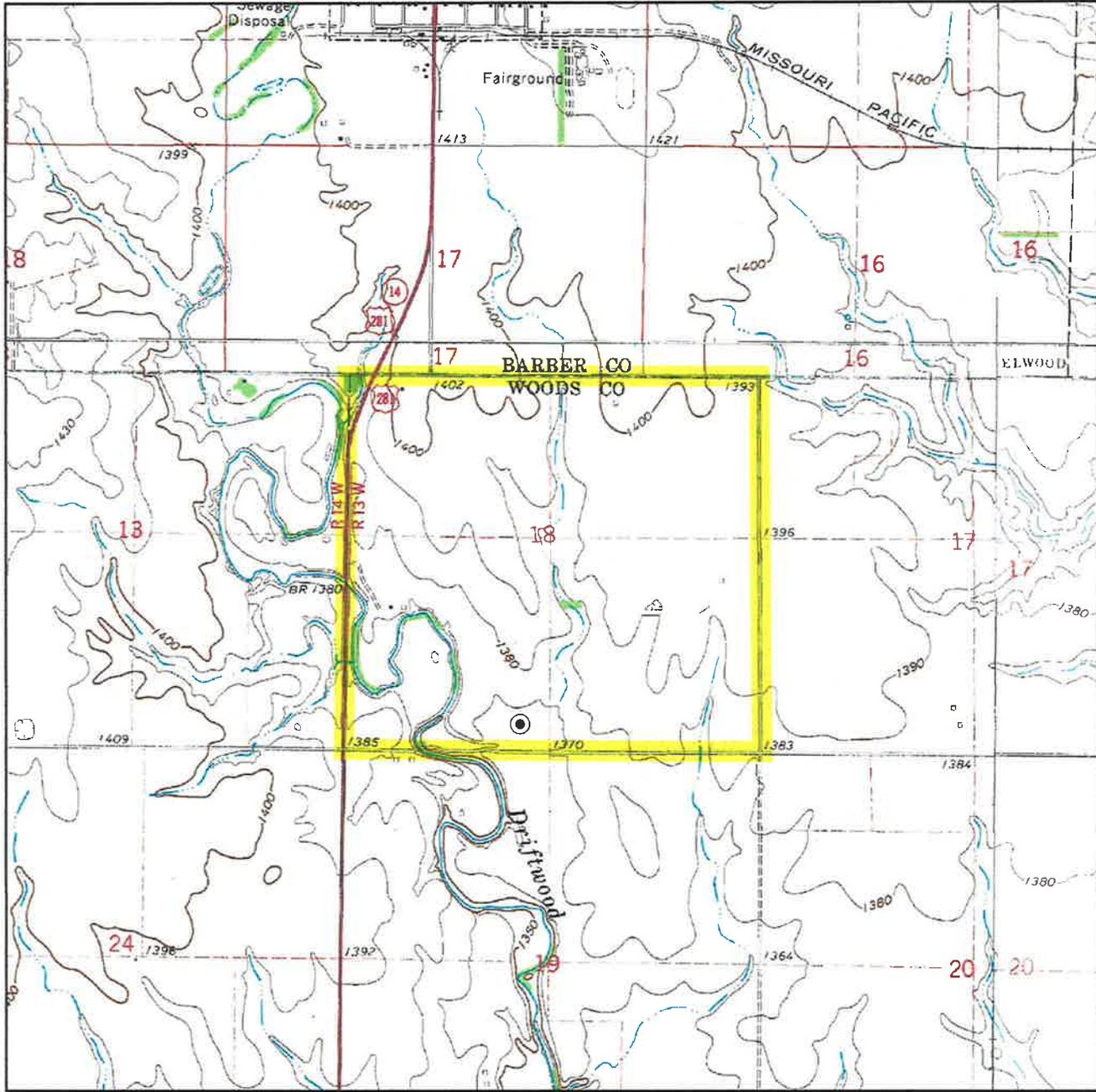
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*Thomas L. Howell*  
 Oklahoma Lic. No. 1433



# TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

Surveying and Mapping for the Energy Industry  
13800 Wireless Way, Okla. City, OK. 73134 www.topographic.com  
Telephone Numbers: Local (405) 843-4847 Toll Free (800) 654-3219

## LOCATION & ELEVATION VERIFICATION MAP



Sec. 18 Twp. 29N Rng. 13W IM

County WOODS State OK

Operator MACH RESOURCES

Description 325'FSL - 2185'FWL

Lease EWING 18-29-13 2H

Elevation 1369' Gr. at Stake

Above Background Data from  
U.S.G.S. Topographic Map  
Scale: 1"=2000'

Contour Interval 10'

When elevation is shown hereon it is the ground elevation of the location stake.  
Review this plat and inform us immediately of any possible discrepancy.

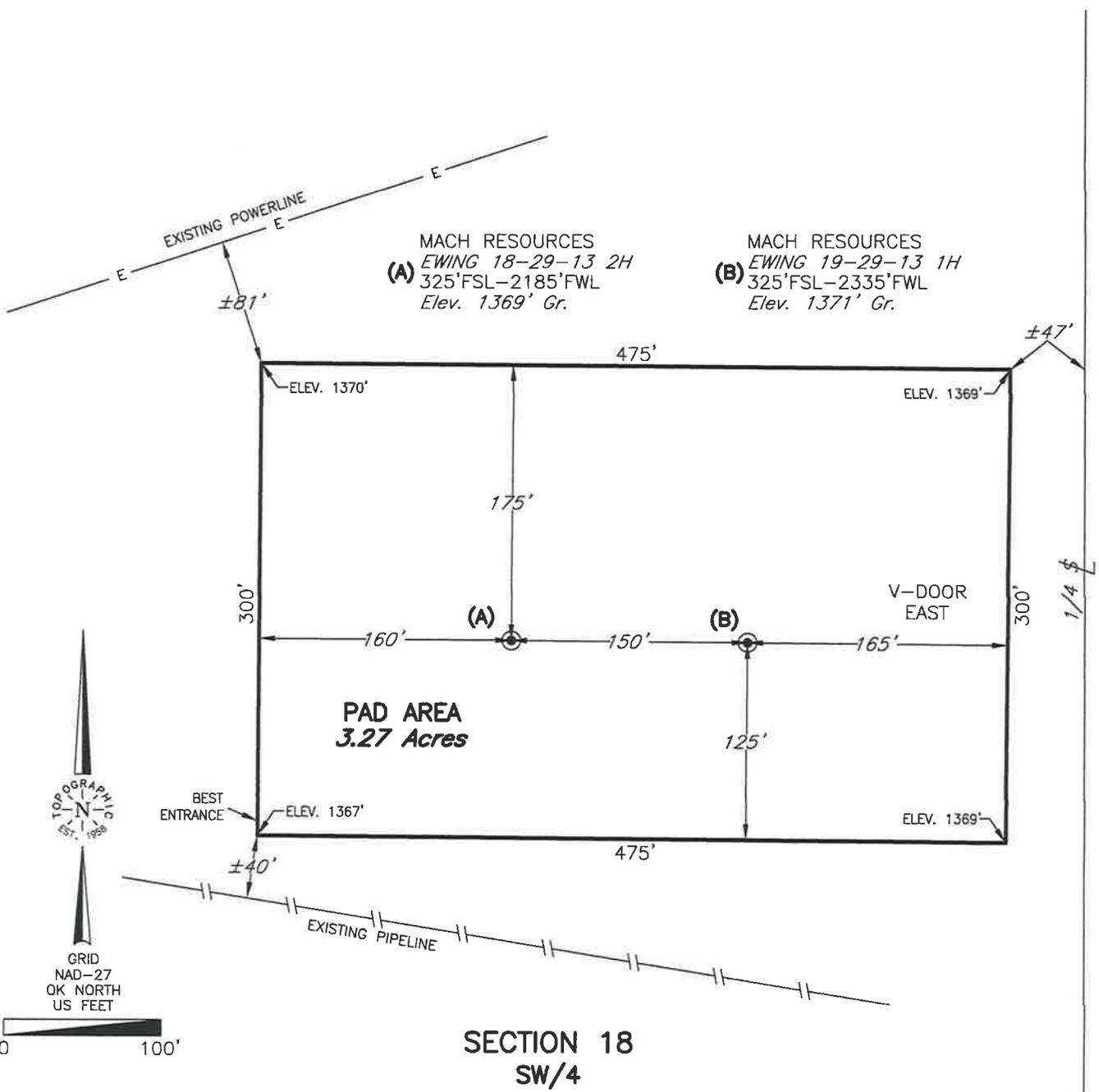
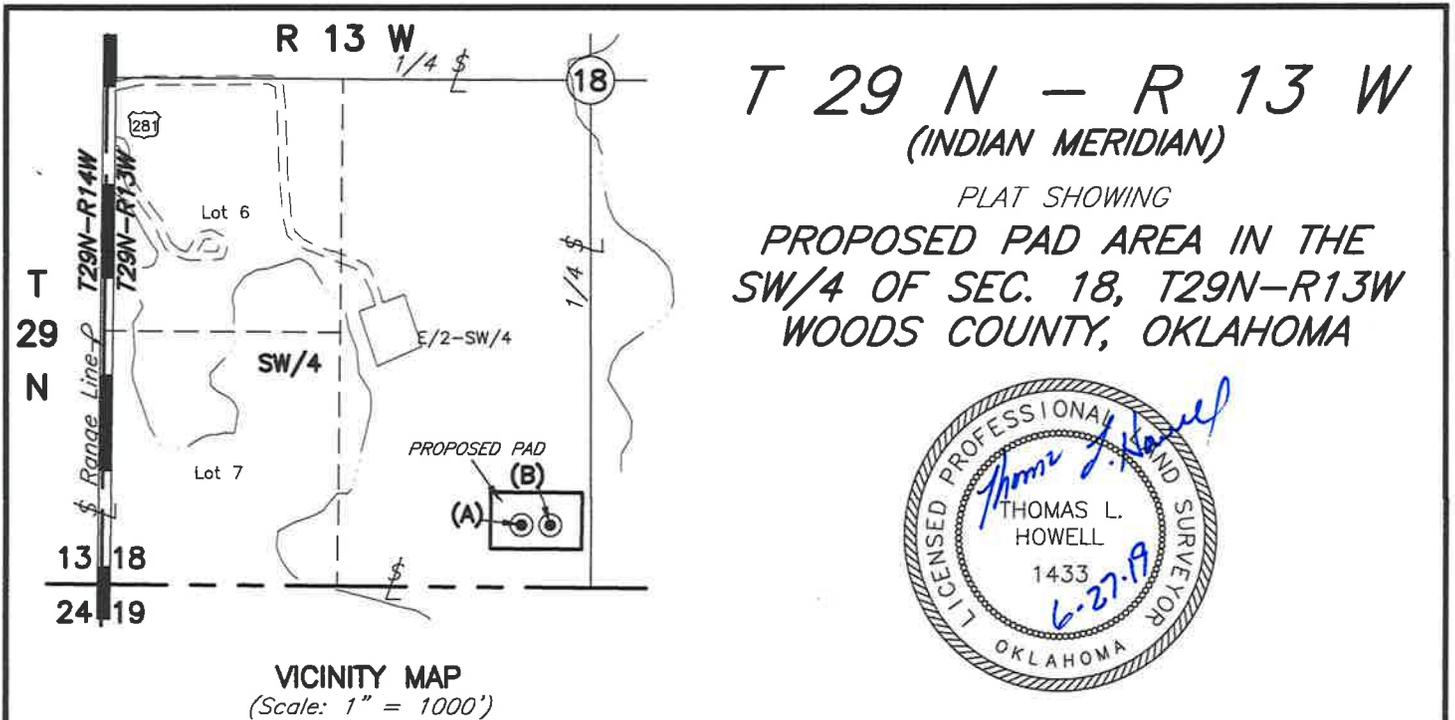


LAND SURVEYORS OF OKLAHOMA

Jun. 21, 2019



# Exhibit "A"



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

This plat was prepared exclusively for				SCALE: 1" = 100'
<b>MACH RESOURCES</b>				DATE: 6-26-19
and may not be relied upon by any other entity without the written consent of Topographic Land Surveyors of Oklahoma.				PROJECT NO.: 127621
SURV. BY: DJ 6-21-19		SURVEYING AND MAPPING BY		FILE NAME: L4000B.DWG
DRAWN BY: AC		<b>TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA</b>		DRAWING NO.: 113014-L4-000-B
APPROVED BY: TH		13800 Wireless Way, Okla. City, OK. 73134 (405) 843-4847		SHEET 1 OF 1
		Certificate of Authorization No. 1293 LS		