

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

API NUMBER: 151 24555

Approval Date: 01/11/2019

Expiration Date: 07/11/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 05 Twp: 27N Rge: 13W County: WOODS
SPOT LOCATION: SE SE SE SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 175 230

Lease Name: FRIEZE 8-27-13 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

EDWARD B. AND CHARLA D. FRIEZE LIVING TRUST
4709 OREGON TRAIL
AMARILLO TX 79109

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

Name	Depth	Name	Depth
1	MISSISSIPPI LIME	4194	6
2			7
3			8
4			9
5			10

Spacing Orders: 134572

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201900073
201900074

Special Orders:

Total Depth: 10600

Ground Elevation: 1347

Surface Casing: 730

Depth to base of Treatable Water-Bearing FM: 680

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: 19-36084

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 08 Twp 27N Rge 13W County WOODS

Spot Location of End Point: S2 S2 SE SE

Feet From: SOUTH 1/4 Section Line: 150

Feet From: EAST 1/4 Section Line: 660

Depth of Deviation: 4791

Radius of Turn: 554

Direction: 185

Total Length: 4938

Measured Total Depth: 10600

True Vertical Depth: 5320

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

Additional Surface Owner	Address	City, State, Zip
REX I. FRIEZE LIVING TRUST	1412 CONWAY ISLE CIRCLE	ORLANDO, FL 73809

Notes:

Category

Description

HYDRAULIC FRACTURING

1/8/2019 - 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 - 201900073

1/9/2019 - G58 - 8-27N-13W
X134572 MSSLM
1 WELL
NO OP. NAMED
HEARING 1/28/2019

PENDING CD - 201900074

1/9/2019 - G58 - (E.O.) 8-27N-13W
X134572 MSSLM
COMPL. INT. NCT 150' FSL, NCT 150' FNL, NCT 330' FEL
NO OP. NAMED
REC 1/11/2019 (MINMIER)

SPACING - 134572

1/9/2019 - G58 - (640) 8-27N-13W
EXT OTHERS
EXT 58325/130449 MSSLM

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

151-24555

WOODS

County, Oklahoma

175'FSL - 230'FEL Section 5 Township 27N Range 13W I.M.

GRID
NAD-27
OK NORTH
US FEET
Scale:
1" = 1000'

THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY

Operator: MACH RESOURCES

Lease Name: FRIEZE 8-27-13

Topography & Vegetation Loc. fell in level field

Good Drill Site? Yes

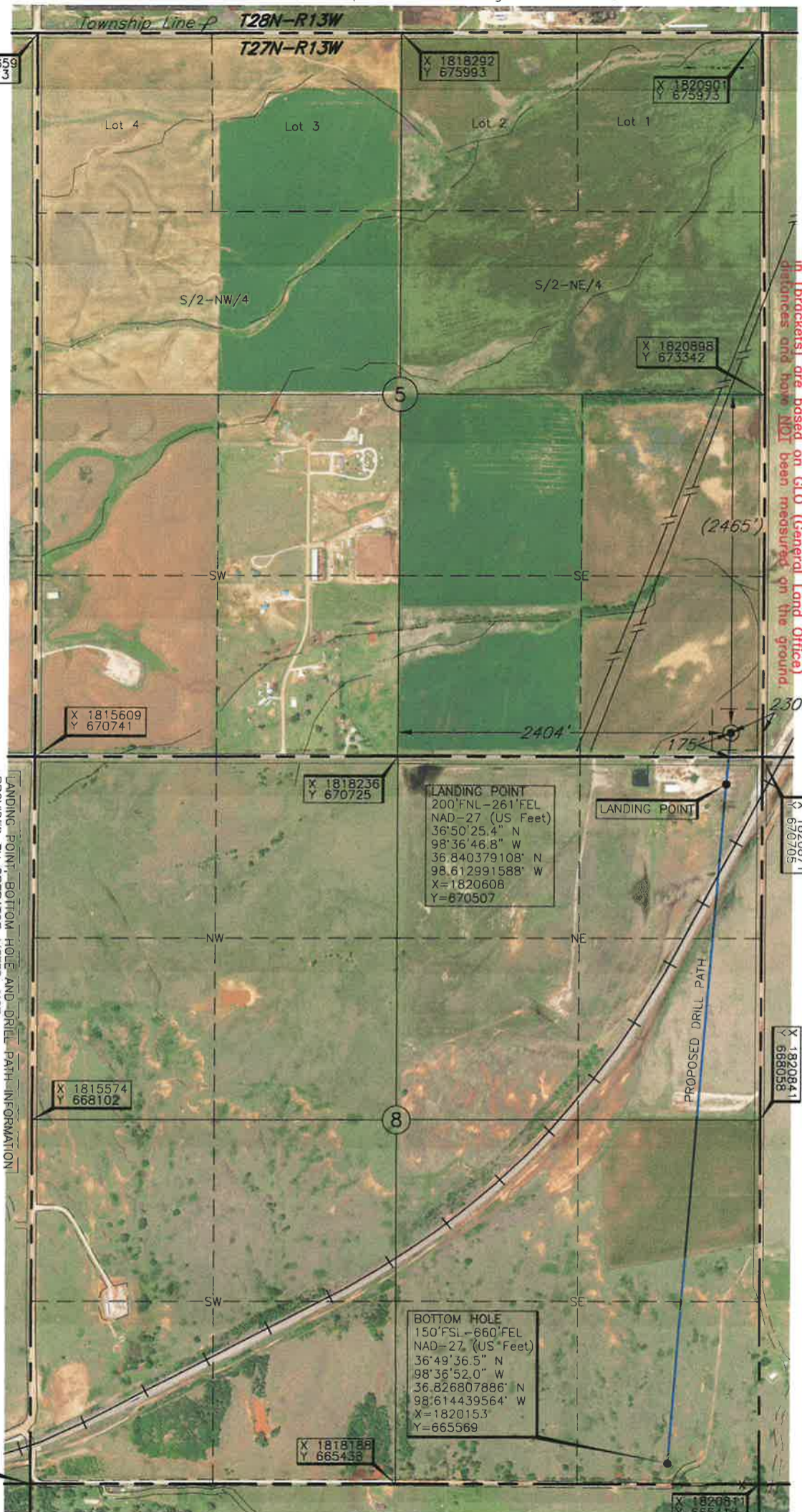
Best Accessibility to Location From South off county road

Distance & Direction From Alva, OK, go ±3.0 mi. North, then ±2.0 mi. East to the SE Cor. of Sec. 5-T27N-R13W

Reference Stakes or Alternate Location Stakes Set None

Well No.: 1H

ELEVATION:
1347' Gr. at Stake



Distances shown in (parenthesis) are calculated based upon the Quarter Section being 2640 feet, those shown in brackets are based on GLO (General Land Office) distances and have NDI been measured on the ground

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

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

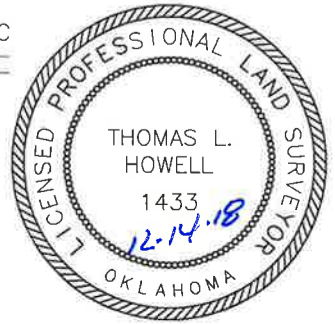
DATUM: NAD-27
 LAT: 36°50'29.1\"N
 LONG: 98°36'46.4\"W
 LAT: 36.841408986° N
 LONG: 98.612881685° W
 STATE PLANE COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 1820642
 Y: 670882

Date of Drawing: Dec. 13, 2018
 Invoice # 308060 Date Staked: Dec. 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



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

151-24555

WOODS

County, Oklahoma

175'FSL - 230'FEL Section 5 Township 27N Range 13W I.M.

Township Line - *p* T28N-R13W

T27N-R13W

Lot 4

Lot 3

Lot 2

Lot 1

S/2-NW/4

S/2-NE/4

5

SW

SE

NW

NE

SW

SE

8

X 1815659
Y 676013

X 1818292
Y 675993

X 1820901
Y 675973

X 1820898
Y 673342

X 1815609
Y 670741

X 1818236
Y 670725

LANDING POINT
200'FNL-261'FEL
NAD-27 (US Feet)
36°50'25.4" N
98°36'46.8" W
36.840379108" N
98.612991588" W
X=1820608
Y=670507

X 1820871
Y 670705

X 1820841
Y 668058

X 1815574
Y 668102

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

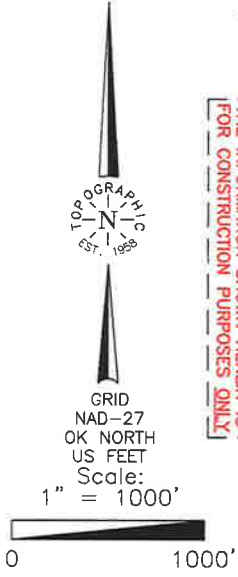
BOTTOM HOLE
150'FSL-660'FEL
NAD-27 (US Feet)
36°49'36.5" N
98°36'52.0" W
36.826807886" N
98.614439564" W
X=1820153
Y=665569

X 1818188
Y 665438

X 1815542
Y 665464

X 1820811
Y 665413

Distances shown in (parenthesis) are calculated based upon the Quarter Section being 2640 feet, those shown in brackets are based on GLD (General Land Office) distances and have NOT been measured on the ground.



THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY

Operator: MACH RESOURCES
 Lease Name: FRIEZE 8-27-13
 Topography & Vegetation Loc. fell in level field
 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 Alva, OK, go ±3.0 mi. North, then ±2.0 mi. East to the SE Cor. of Sec. 5-T27N-R13W
 Well No.: 1H
 ELEVATION: 1347' Gr. at Stake

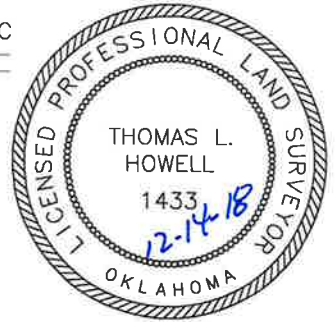
DATUM: NAD-27
 LAT: 36°50'29.1"N
 LONG: 98°36'46.4"W
 STATE PLANE COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 1820642
 Y: 670882

Date of Drawing: Dec. 13, 2018
 Invoice # 308060 Date Staked: Dec. 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

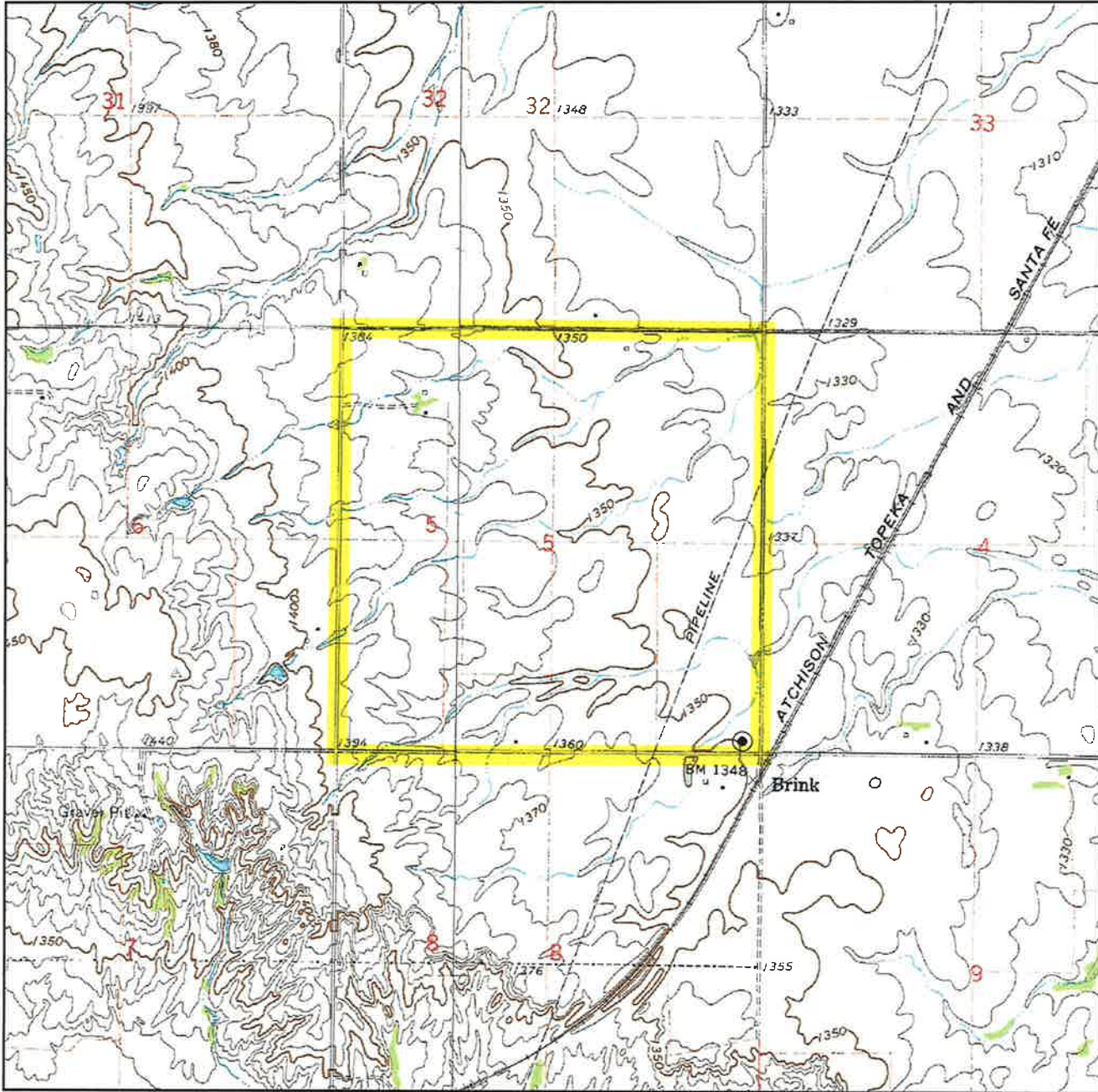
Thomas L. Howell
 Oklahoma Lic. No. 1433



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. 5 Twp. 27N Rng. 13W IM

County WOODS State OK

Operator MACH RESOURCES

Description 175'FSL - 230'FEL

Lease FRIEZE 8-27-13 1H

Elevation 1347' 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.



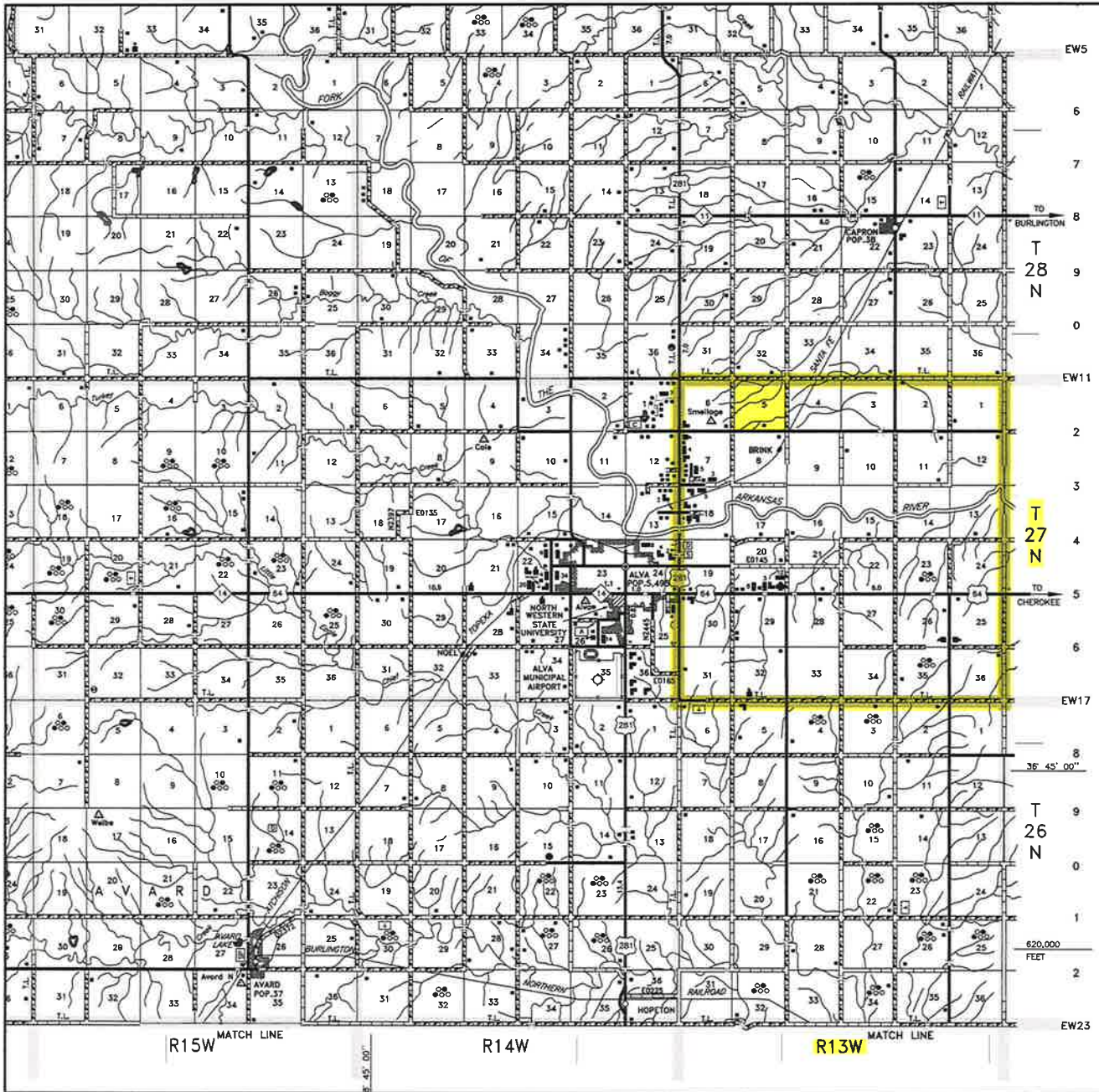
LAND SURVEYORS OF OKLAHOMA

Dec. 06, 2018

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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VICINITY MAP



Scale: 1" = 3 Miles

Sec. 5 Twp. 27N Rng. 13W IM

County WOODS State OK

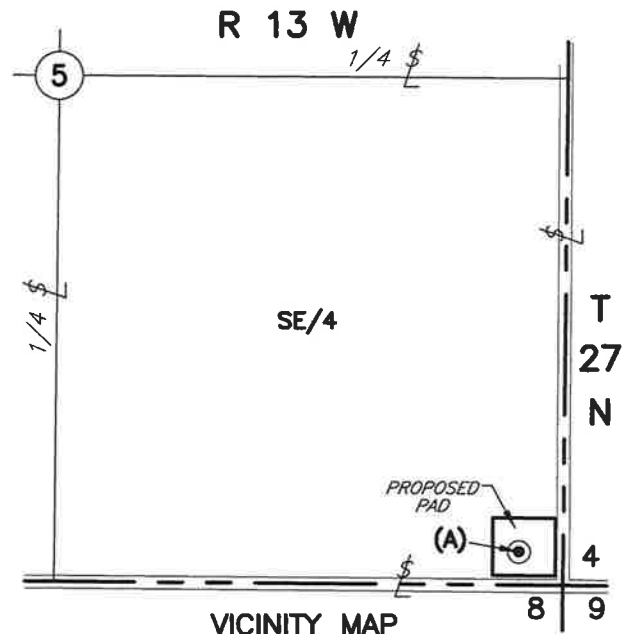
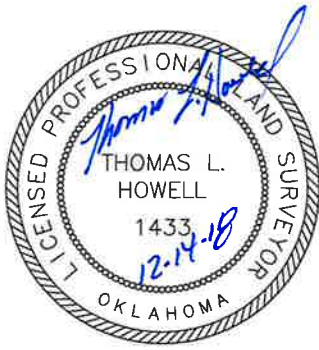
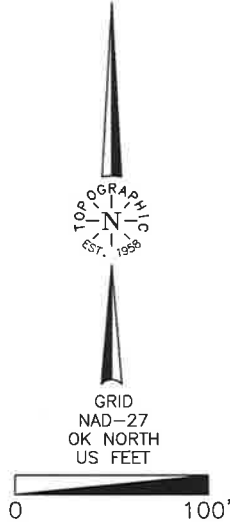
Operator MACH RESOURCES



LAND SURVEYORS OF OKLAHOMA

Exhibit "A"

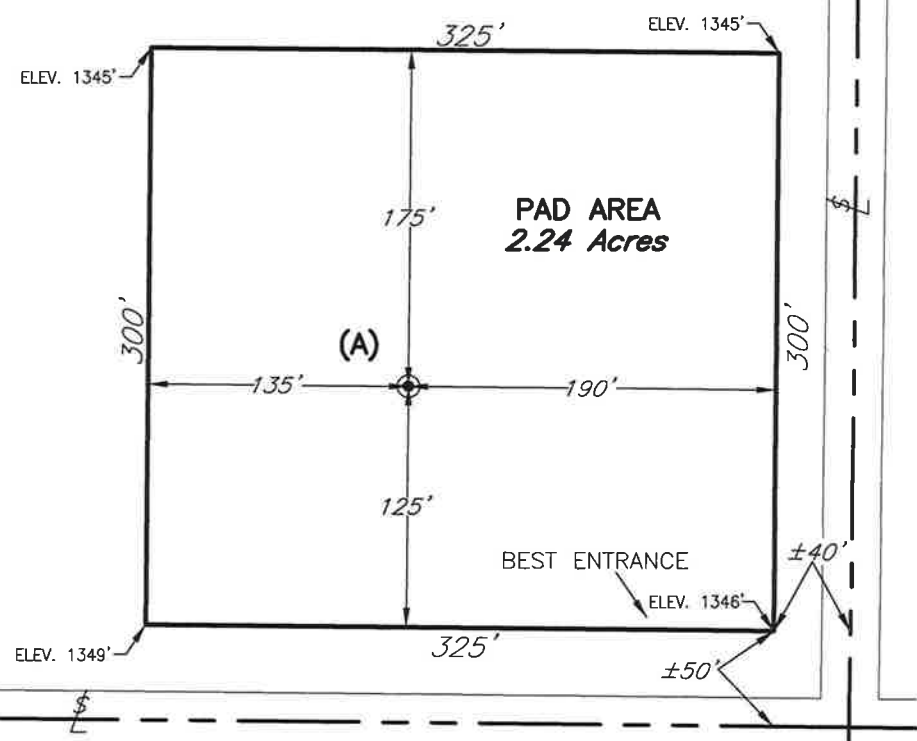
T 27 N - R 13 W
(INDIAN MERIDIAN)



VICINITY MAP
(Scale: 1" = 1000')

(A) MACH RESOURCES, LLC
FRIEZE 8-27-13 1H
175'FSL-230'FEL
Elev. 1347' Gr.

SECTION 5
SE/4



PLAT SHOWING
PROPOSED PAD AREA IN THE
SE/4 OF SECTION 5, T27N-R13W
WOODS COUNTY, OKLAHOMA

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

				This plat was prepared exclusively for		SCALE: 1"=100'	
				MACH RESOURCES		DATE: 12-13-2018	
				and may not be relied upon by any other entity without the written consent of Topographic Land Surveyors of Oklahoma		INVOICE NO.: 308060	
NO.	REVISION	DATE	BY	SURVEYING AND MAPPING BY TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA 13800 Wireless Way, Okla. City, OK, 73134 (405) 843-4847 Certificate of Authorization No. 1293 LS		FILE NAME: L2110A.DWG	
SUR. BY:	DJ	12-06-2018	TH			DWG NO.: 113014-L2-110-A	
DRAWN BY:	AC		TH			SHEET 1 OF 1	
APPROVED BY:	TH						