

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

API NUMBER: 151 24549

Approval Date: 11/02/2018

Expiration Date: 05/02/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 16 Twp: 29N Rge: 13W County: WOODS
SPOT LOCATION: ☐ SE ☐ SE ☐ SE ☐ SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 240 2419

Lease Name: **MACKEY FARMS 16-29-13** Well No: **2H** Well will be **240** 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

MIKE MACKEY FARMS LLC
PO BOX 852
ALVA OK 73717

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

Name	Depth	Name	Depth
1 MISSISSIPPI LIME	4815	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 140386

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201808591
201808854

Special Orders:

Total Depth: 9310 Ground Elevation: 1361 **Surface Casing: 270** Depth to base of Treatable Water-Bearing FM: 220

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 **AP/TE DEPOSIT**

Pit Location Formation: **TERRACE**

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-35479
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 16 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: 4607

Radius of Turn: 483

Direction: 354

Total Length: 3945

Measured Total Depth: 9310

True Vertical Depth: 4925

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

Notes:

Category

Description

HYDRAULIC FRACTURING

11/2/2018 - 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 - 201808591

11/2/2018 - G58 - 16-29N-13W
X140386 MSSLM
1 WELL
NO OP. NAMED
HEARING 11/6/2018

PENDING CD - 201808854

11/2/2018 - G58 - (E.O.) 16-29N-13W
X140386 MSSLM
COMPL. INT. NCT 150' FSL, NCT 0' FNL, NCT 1320' FWL
NO OP. NAMED
REC 11/2/2018 (JACKSON)

SPACING - 140386

11/2/2018 - G58 - (640) 16-29N-13W
EST MSSLM, OTHERS

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

151-24549

WOODS

County, Oklahoma

240'FSL-2419'FWL Section 16 Township 29N Range 13W I.M.



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

Operator: MACH RESOURCES

Lease Name: MACKEY FARMS 16-29-13

Well No.: 2H

ELEVATION:

1361' Gr. at Stake

Topography & Vegetation Loc. fell in level plowed 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 Capron, OK, go ±6.0 mi. North, then ±2.0 mi. West to the
SW Cor. of Sec. 16-T29N-R13W

Date of Drawing: Oct. 02, 2018

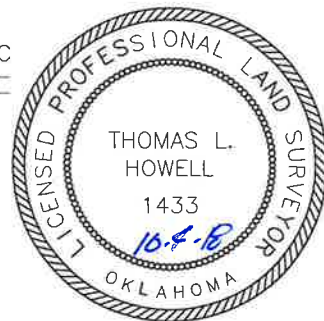
Invoice # 303837 Date Staked: Sep. 25, 2018

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



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

DATUM: NAD-27
LAT: 36°59'11.7"N
LONG: 98°36'30.5"W
LAT: 36.986580767° N
LONG: 98.608480103° W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1822262
Y: 723730

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Certificate of Authorization No. 1293 LS

WOODS

County, Oklahoma

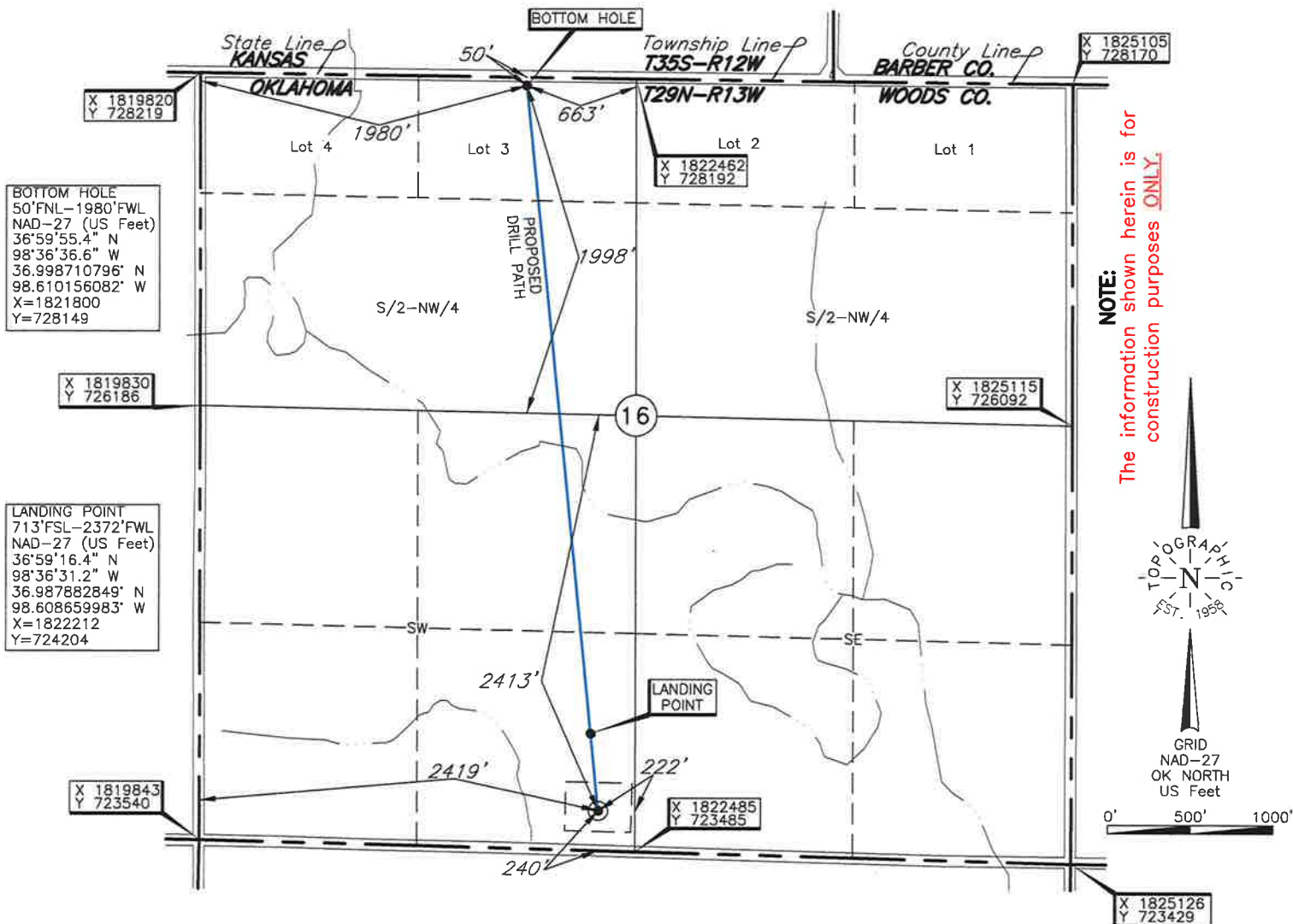
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Section 16

Township 29N

Range 13W I.M.

151-24549



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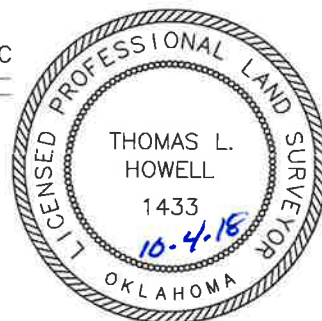
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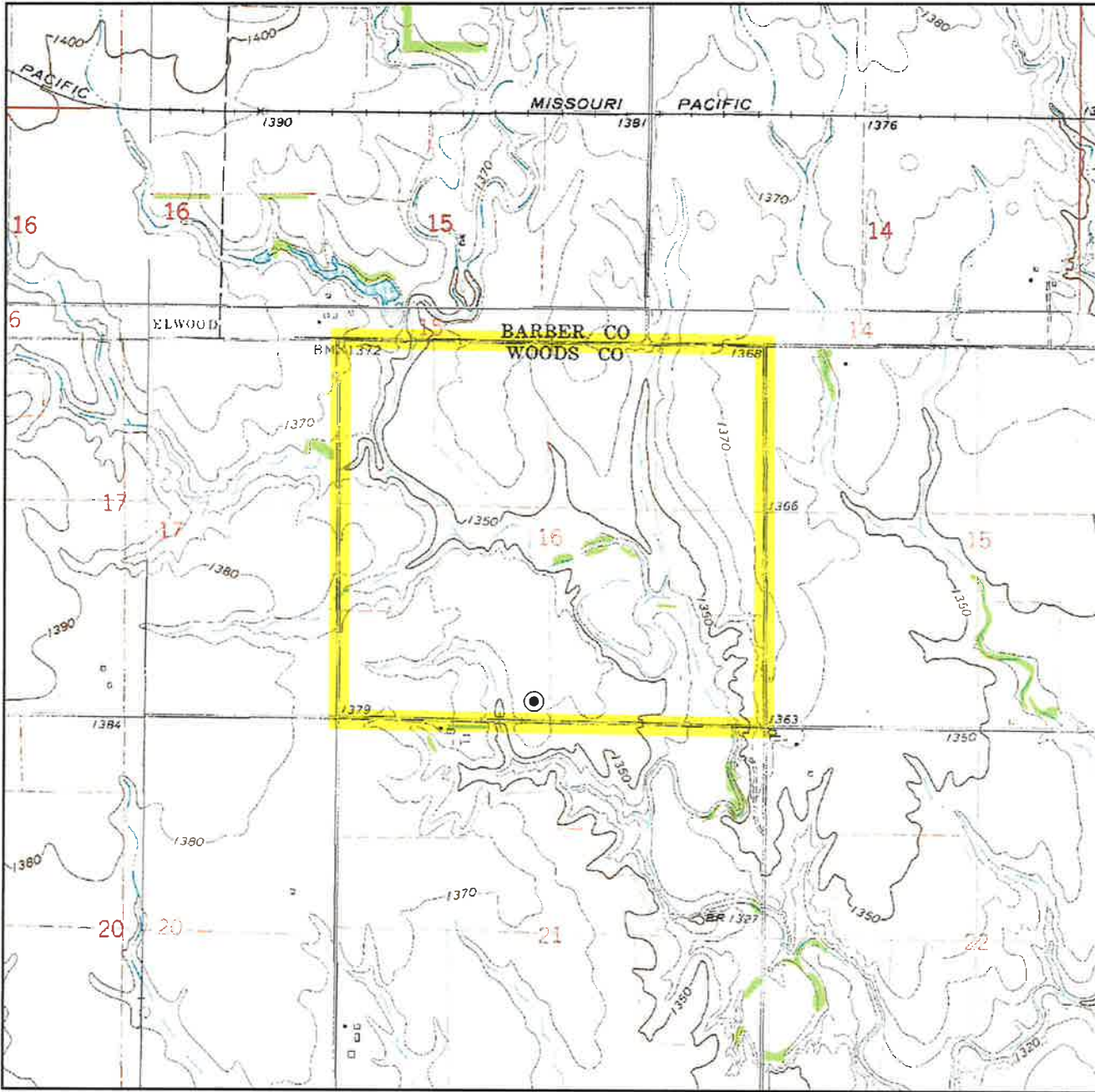
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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. 16 Twp. 29N Rng. 13W IM

County WOODS State OK

Operator MACH RESOURCES

Description 240' FSL-2419' FWL

Lease MACKEY FARMS 16-29-13 2H

Elevation 1361' 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.



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

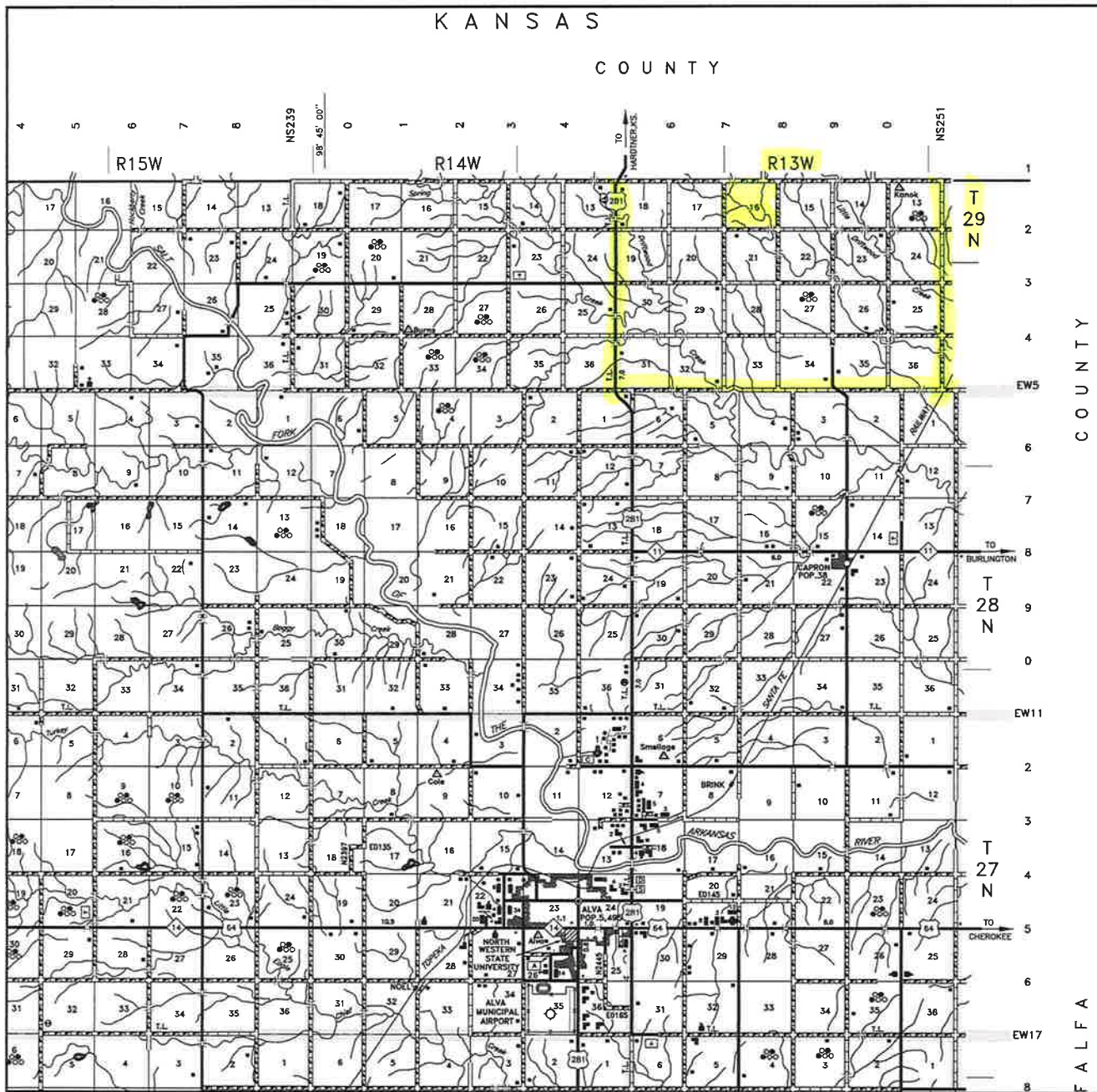
LAND SURVEYORS OF OKLAHOMA

Sep. 25, 2018

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

VICINITY MAP



Scale: 1" = 3 Miles

Sec. 16 Twp. 29N Rng. 13W IM

County WOODS State OK

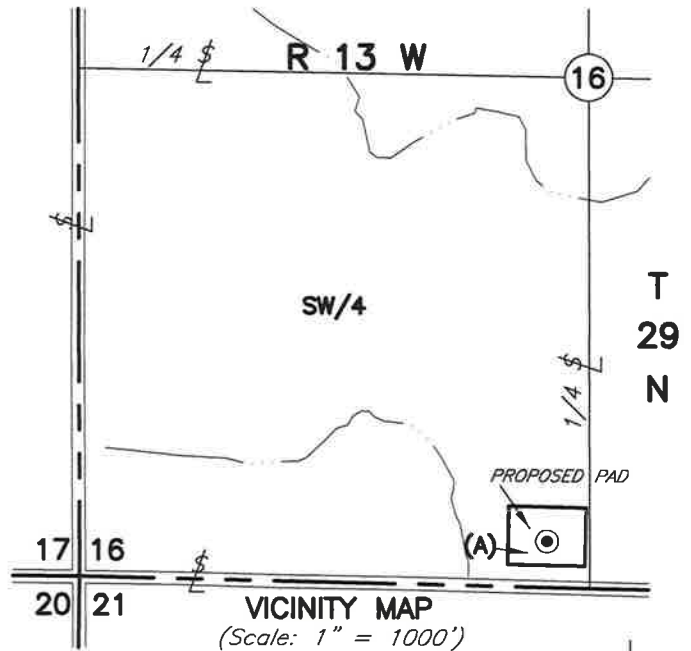
Operator MACH RESOURCES



LAND SURVEYORS OF OKLAHOMA

T 29 N - R 13 W
(INDIAN MERIDIAN)

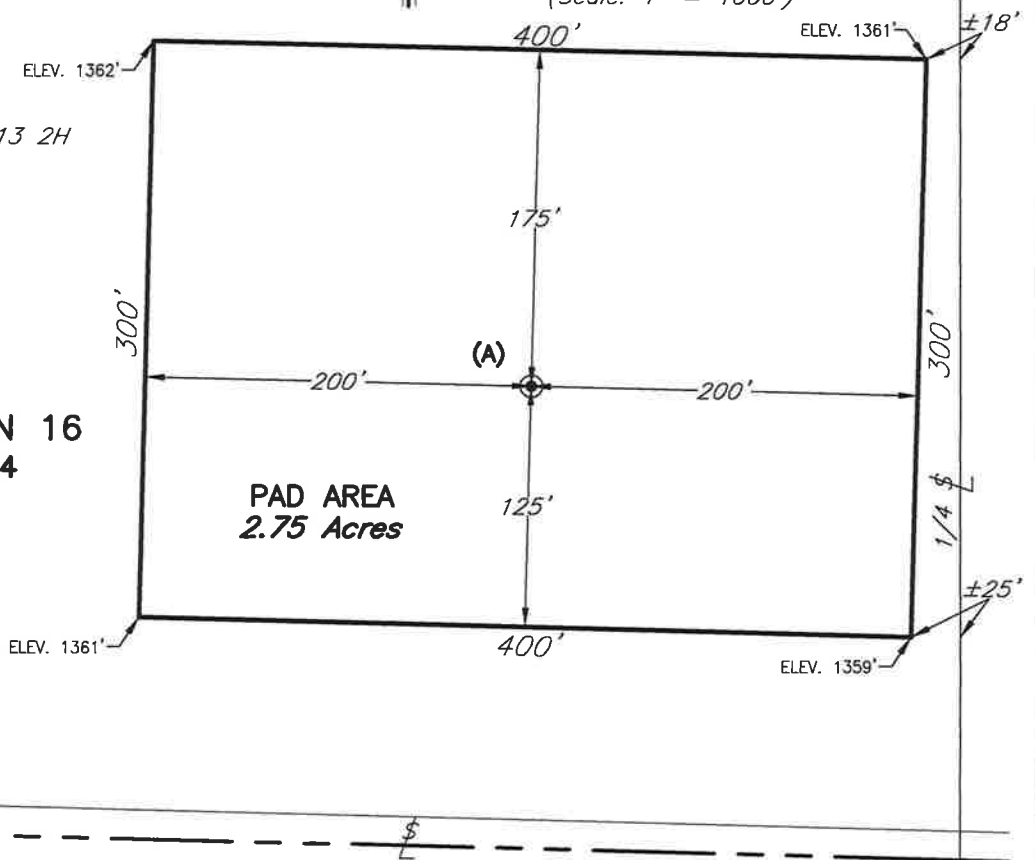
PLAT SHOWING
**PROPOSED PAD AREA IN THE
SW/4 OF SEC. 16, T29N-R13W
WOODS COUNTY, OKLAHOMA**



MACH RESOURCES
(A) **MACKEY FARMS 16-29-13 2H**
240' FSL-2420' FWL
Elev. 1361' Gr.



**SECTION 16
SW/4**



NOTE:

The information shown herein is
for construction purposes ONLY.

				This plat was prepared exclusively for		SCALE: 1" = 100'
				MACH RESOURCES		DATE: 10-02-18
NO.	REVISION	DATE	BY	and may not be relied upon by any other entity without the written consent of Topographic Land Surveyors of Oklahoma.		INVOICE NO.: 303837
SURV. BY: DJ 9-25-18				SURVEYING AND MAPPING BY		FILE NAME: L2064A.DWG
DRAWN BY: AC				TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA		DRAWING NO.: 113014-L2-064-A
APPROVED BY: TH				13800 Wireless Way, Okla. City, OK. 73134 (405) 843-4847		SHEET 1 OF 1
				Certificate of Authorization No. 1293 LS		