

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

API NUMBER: 003 23346

Approval Date: 10/26/2018  
Expiration Date: 04/26/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 08 Twp: 26N Rge: 11W County: ALFALFA  
SPOT LOCATION:  N2  N2  NE  NW FEET FROM QUARTER: FROM NORTH FROM WEST  
SECTION LINES: 310 1980

Lease Name: HADWIGER 8-26-11 Well No: 3H Well will be 310 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

JAMES A AND ROZELLA J HADWIGER  
24473 CR 600  
CHEROKEE OK 73728

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	4344	6
2			7
3			8
4			9
5			10

Spacing Orders: 602795

Location Exception Orders: 685450

Increased Density Orders:

Pending CD Numbers: 201807906

Special Orders:

Total Depth: 10330

Ground Elevation: 1218

**Surface Casing: 240**

Depth to base of Treatable Water-Bearing FM: 190

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: 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

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 18-35288

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

This permit does not transfer 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 26N Rge 11W County ALFALFA

Spot Location of End Point: S2 S2 SE SW

Feet From: SOUTH 1/4 Section Line: 150

Feet From: WEST 1/4 Section Line: 1980

Depth of Deviation: 4960

Radius of Turn: 654

Direction: 180

Total Length: 5987

Measured Total Depth: 10330

True Vertical Depth: 5475

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

Notes:

Category	Description
HYDRAULIC FRACTURING	<p>10/22/2018 - GA8 - OCC 165:10-3-10 REQUIRES:</p> <p>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;</p> <p>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: <a href="http://OCCEWEB.COM/OG/OGFORMS.HTML">OCCEWEB.COM/OG/OGFORMS.HTML</a>; AND,</p> <p>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: <a href="http://FRACFOCUS.ORG">FRACFOCUS.ORG</a></p>
LOCATION EXCEPTION - 685450	<p>10/25/2018 - G58 - (I.O.) 8-26N-11W X602795 MSSP COMPL. INT. NCT 150' FSL, NCT 150' FNL, NCT 1320' FWL BCE-MACH LLC 10/24/2018</p>
PENDING CD - 201807906	<p>10/25/2018 - G58 - 8-26N-11W X602795 MSSP 2 WELLS NO OP. NAMED HEARING 10/22/2018</p>
SPACING - 602795	<p>10/25/2018 - G58 - (640) 8-26N-11W VAC 100063 MSSLM VAC 110562 MSCH EXT 602079 MSSP, OTHERS</p>

This permit does not address the right of entry or settlement of surface damages.  
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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.

**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

003-23346

ALFALFA

County, Oklahoma

310'FNL - 1980'FWL Section 8 Township 26N Range 11W I.M.

X=1878691  
Y=638622

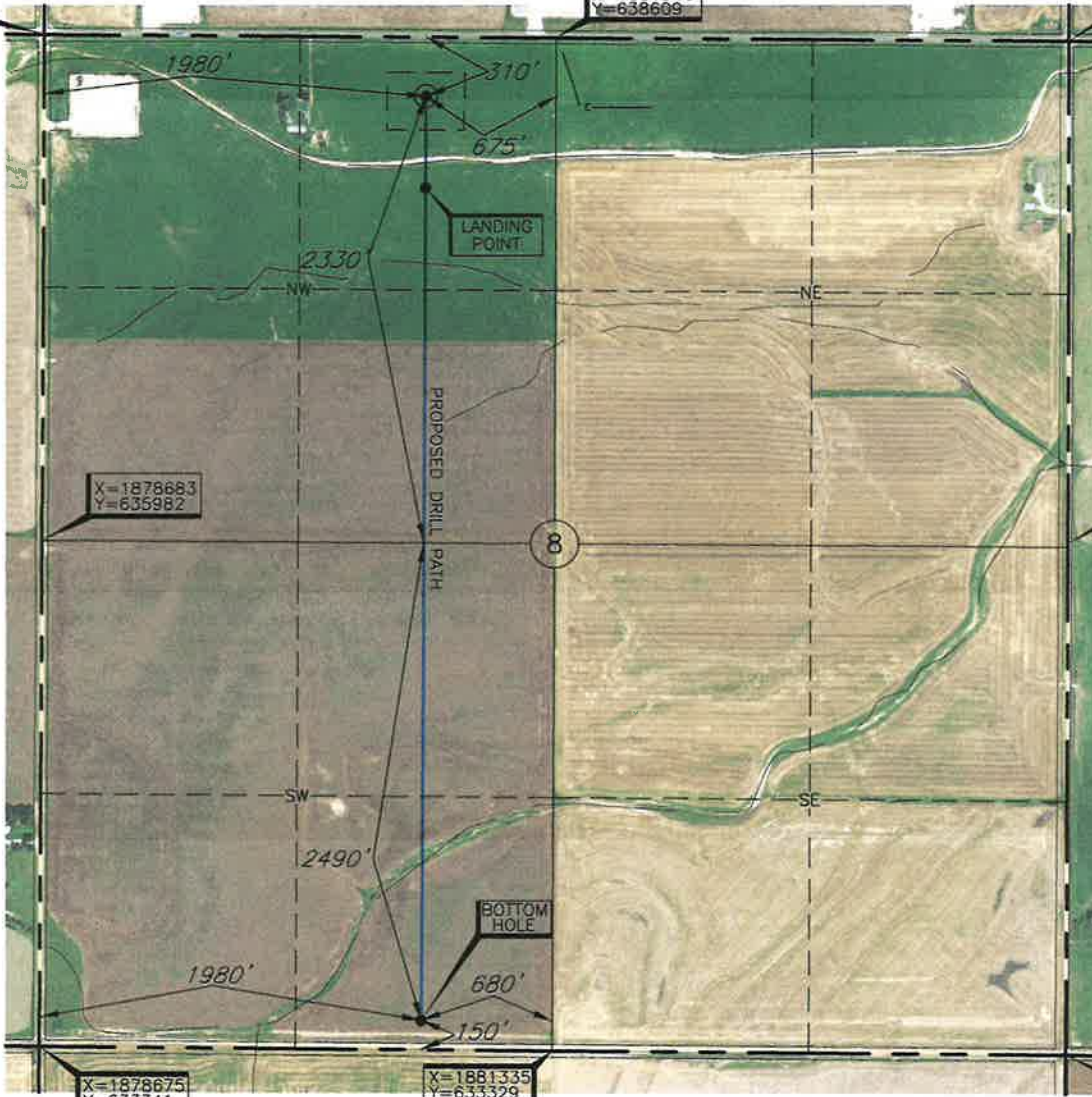
X=1881346  
Y=638689

X=1884001  
Y=638597

SURFACE HOLE  
310'FNL-1980'FWL  
NAD-83  
36°45'10.2" N  
98°24'27.5" W

LANDING POINT  
787'FNL-1980'FWL  
NAD-27 (US Feet)  
36°45'05.3" N  
98°24'26.3" W  
36.751480222' N  
98.407296809' W  
X=1880668  
Y=637825

BOTTOM HOLE  
150'FSL-1980'FWL  
NAD-27 (US Feet)  
36°44'22.4" N  
98°24'26.2" W  
36.739550717' N  
98.407280624' W  
X=1880655  
Y=633482



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

X=1883998  
Y=635957



X=1883996  
Y=633317

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

**ELEVATION:**  
1218' Gr. at stake NAVD88  
1217' Gr. at stake NGVD29

Operator: MACH RESOURCES

Lease Name: HADWIGER 8-26-11

Well No.: 3H

Topography & Vegetation Loc. fell in plowed field, ±150' South of E-W gas pipeline

Good Drill Site? None 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 Jct. St. Hwy. 11 E-N and St. Hwy. 58 N-S, go ±3.0 mi. South on St. Hwy. 58 to Cherokee, OK, go ±3.2 mi. West on paved road to the NW Cor. of Sec. 8-T26N-R11W

Date of Drawing: Sep. 14, 2018

Invoice # 302563 Date Staked: Sep. 11, 2018 AC

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

DATUM: NAD-27  
 LAT: 36°45'10.0"N  
 LONG: 98°24'26.3"W  
 LAT: 36.752790394' N  
 LONG: 98.407298587' W  
 STATE PLANE COORDINATES: (US Feet)  
 ZONE: OK NORTH  
 X: 1880670  
 Y: 638302

**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**

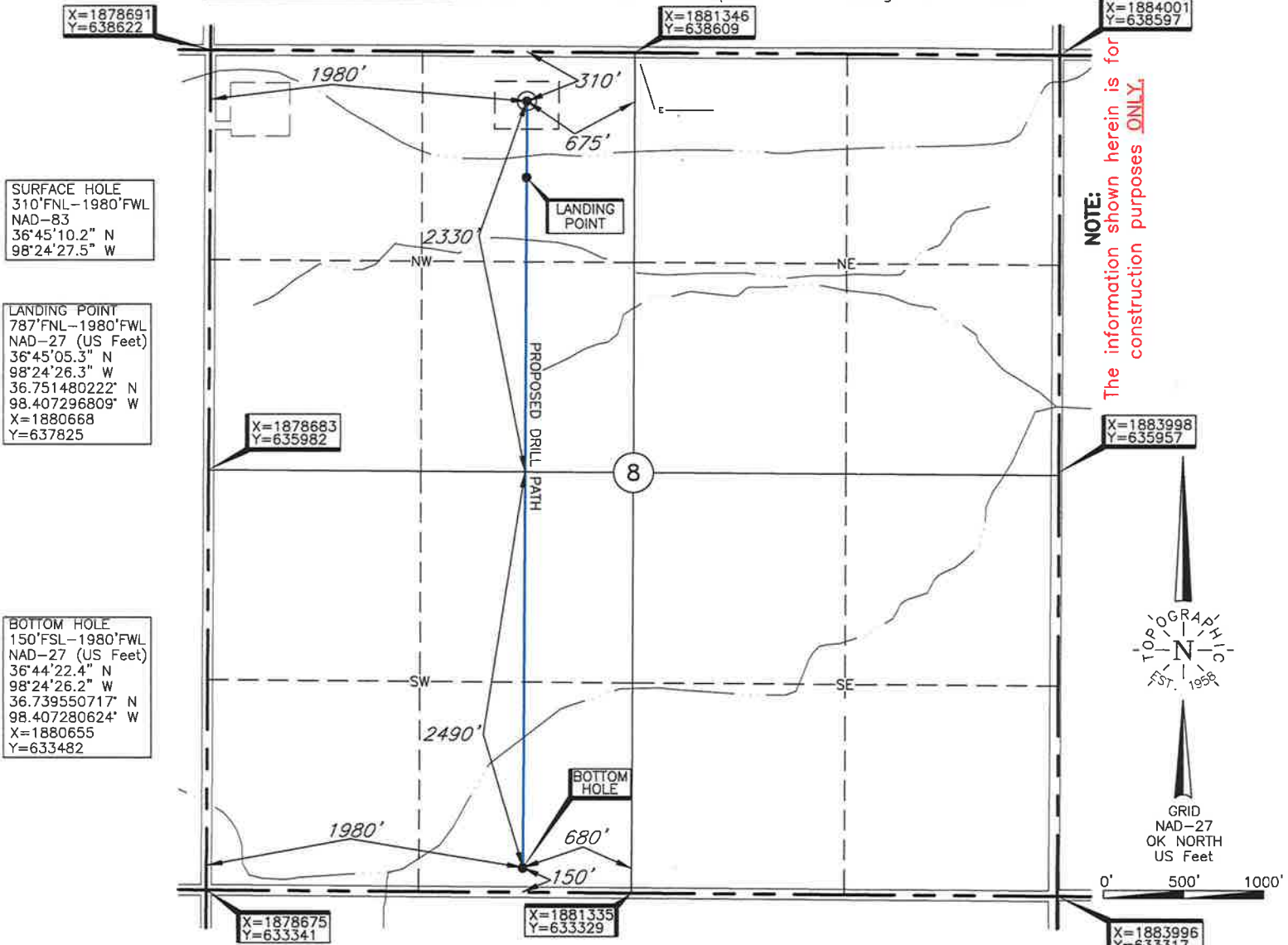
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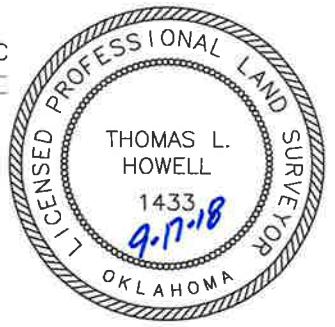
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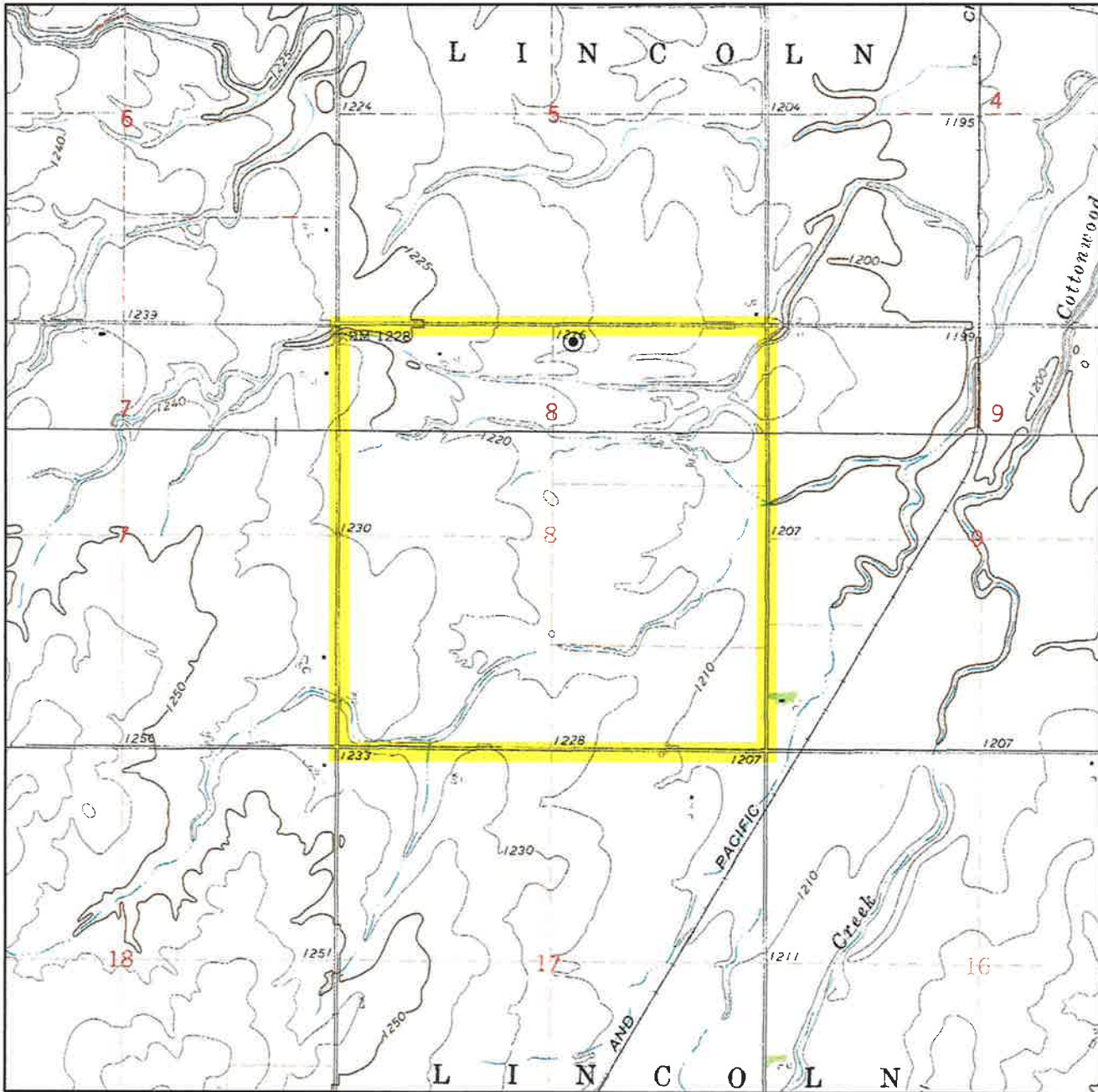
*Thomas L. Howell*  
 Oklahoma Lic. No. 1433



# 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. 8 Twp. 26N Rng. 11W IM

County ALFALFA State OK

Operator MACH RESOURCES

Description 310'FNL - 1980'FWL

Lease HADWIGER 8-26-11 3H

Elevation 1218' Gr. at level pad NAVD88  
1217' Gr. at level pad NGVD29

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

Contour Interval 5'

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.



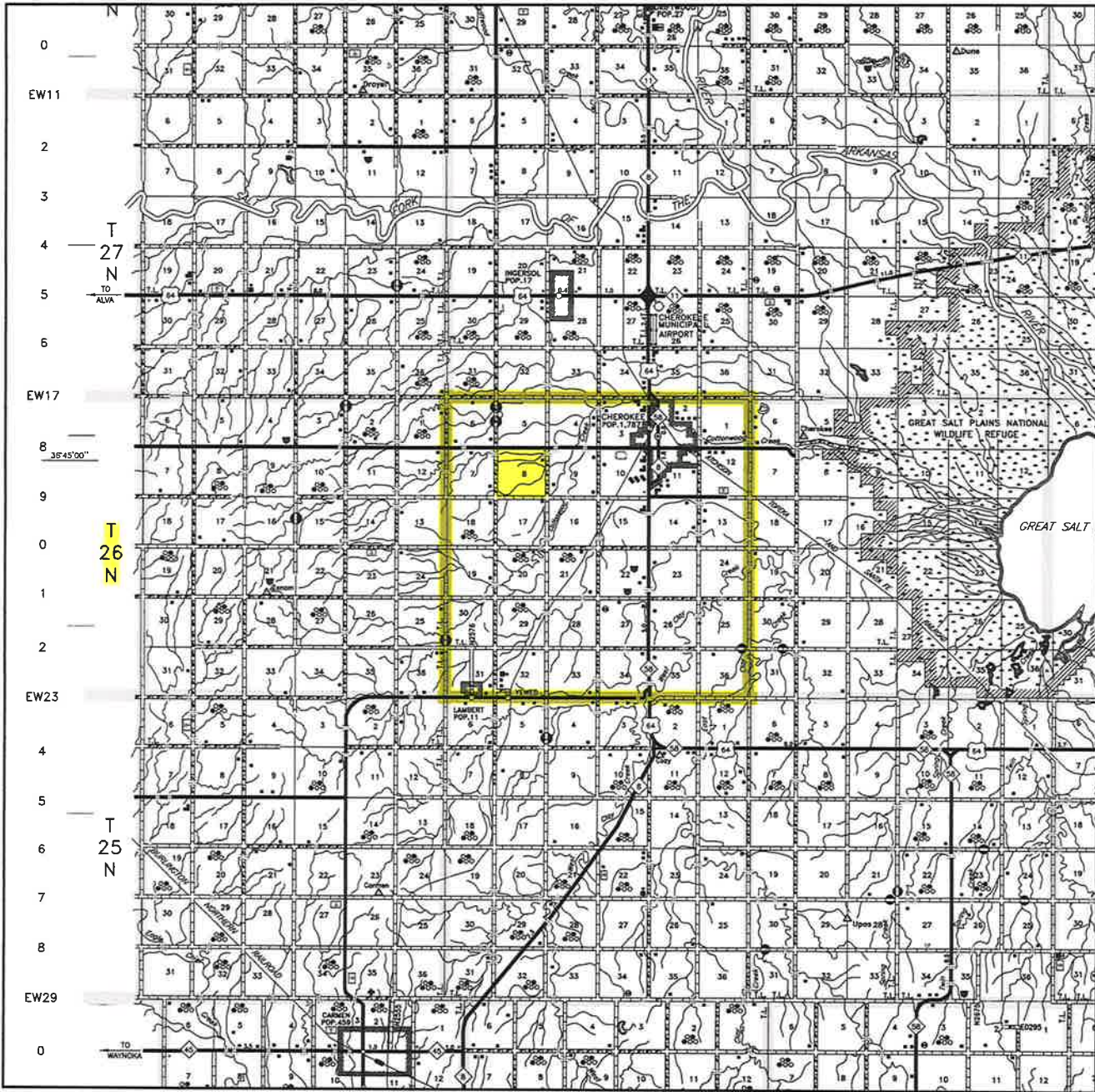
LAND SURVEYORS OF OKLAHOMA

Sep. 11, 2018

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Surveying and Mapping for the Energy Industry  
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## VICINITY MAP



Scale: 1" = 3 Miles

Sec. 8 Twp. 26N Rng. 11W IM

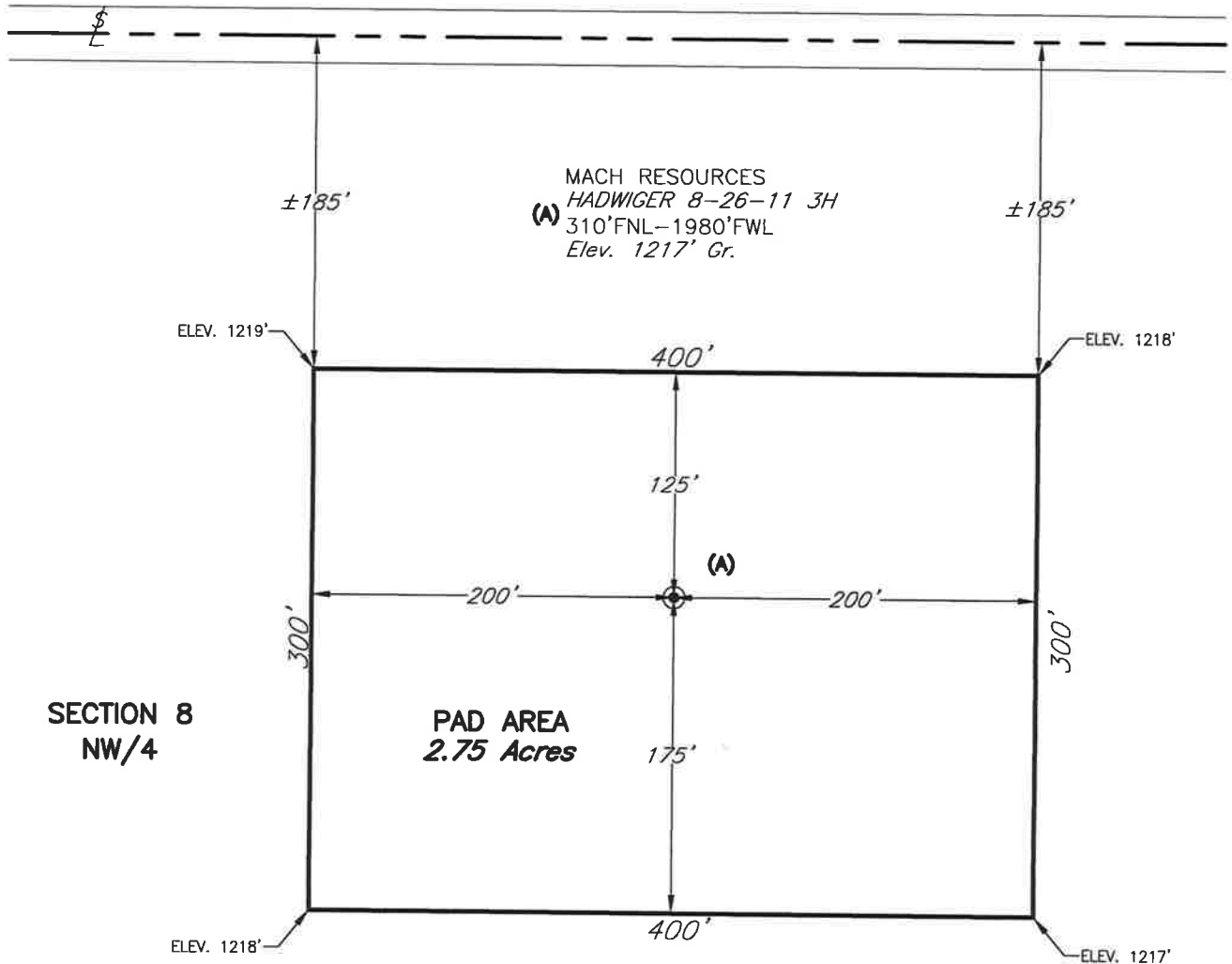
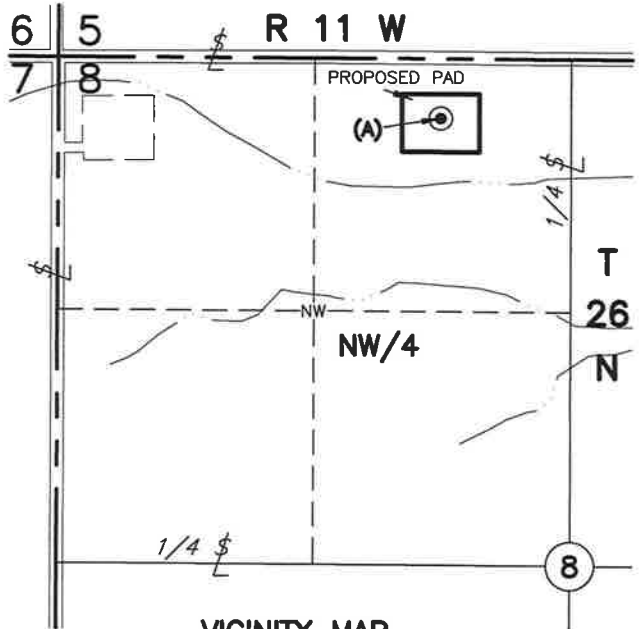
County ALFALFA State OK

Operator MACH RESOURCES



LAND SURVEYORS OF OKLAHOMA

T 26 N - R 11 W  
(INDIAN MERIDIAN)



SECTION 8  
NW/4

PAD AREA  
2.75 Acres

PLAT SHOWING  
PROPOSED PAD AREA IN THE  
NW/4 OF SECTION 8, T26N - R11W  
ALFALFA COUNTY, OKLAHOMA

**NOTE:**

The information shown herein is for construction purposes ONLY.

				This plat was prepared exclusively for		SCALE: 1"=100'	
				<b>MACH RESOURCES</b>		DATE: 09-14-18	
				and may not be relied upon by any other entity without the written consent of Topographic Land Surveyors of Oklahoma		INVOICE NO.: 302563	
NO.	REVISION	DATE	BY	SURVEYING AND MAPPING BY <b>TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA</b> 13800 Wireless Way, Okla. City, OK, 73134 (405) 843-4547 Certificate of Authorization No. 1293 LS		FILE NAME: L2059B.DWG	
SUR. BY:	ES	09-11-18				DWG NO.: 113014-L2-059-B	
DRAWN BY:	AC					SHEET 1 OF 1	
APPROVED BY:	TH						