

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

API NUMBER: 017 25372

Approval Date: 01/16/2019

Expiration Date: 07/16/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 14 Twp: 12N Rge: 7W

County: CANADIAN

SPOT LOCATION: ☐ NW ☐ NE ☐ NW ☐ NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 250 1700

Lease Name: PAMUNKEY 14-12N-7W

Well No: 1MH

Well will be 250 feet from nearest unit or lease boundary.

Operator Name: PALOMA OPERATING CO INC

Telephone: 7136508509

OTC/OCC Number: 23932 0

PALOMA OPERATING CO INC
1100 LOUISIANA ST STE 5100
HOUSTON, TX 77002-5220

MICHAEL HURST
625 AMITY LANE
EL RENO OK 73036

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	8888	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 141057

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201808732

Special Orders:

Total Depth: 14483

Ground Elevation: 1310

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 340

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

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: 5000 Average: 1500

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 ALLUVIAL

Pit Location Formation: ALLUVIUM

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

PERMIT NO: 18-35233

G. Haul to recycling/re-use facility: Sec. 22 Twn. 16N Rng. 9W Cnty. 73 Order No: 647741

H. SEE MEMO

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.

PIT 2 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: OIL BASED

Chlorides Max: 300000 Average: 200000

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 ALLUVIAL

Pit Location Formation: ALLUVIUM

HORIZONTAL HOLE 1

Sec 14 Twp 12N Rge 7W County CANADIAN

Spot Location of End Point: SW SE SE SE

Feet From: SOUTH 1/4 Section Line: 65

Feet From: EAST 1/4 Section Line: 360

Depth of Deviation: 8480

Radius of Turn: 620

Direction: 175

Total Length: 5029

Measured Total Depth: 14483

True Vertical Depth: 8890

End Point Location from Lease,
Unit, or Property Line: 65

Notes:

Category

Description

DEEP SURFACE CASING

1/9/2019 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

1/9/2019 - 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

MEMO

1/9/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS (REQUIRED - SIX MILE CREEK), PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201808732

1/16/2019 - G58 - (I.O.) 14-12N-7W
X141057 MSSP
COMPL. INT. NCT 165' FNL, NCT 165' FSL, NCT 330' FEL
NO OP. NAMED
REC 11/19/2018 (DENTON)

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017 25372 PAMUNKEY 14-12N-7W 1MH

Category	Description
SPACING - 141057	1/16/2019 - G58 - (640) 14-12N-7W EXT OTHERS EXT OTHER EXT 124533 MSSP

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

13800 WIRELESS WAY, OKLA. CITY, OKLA. 73134 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219

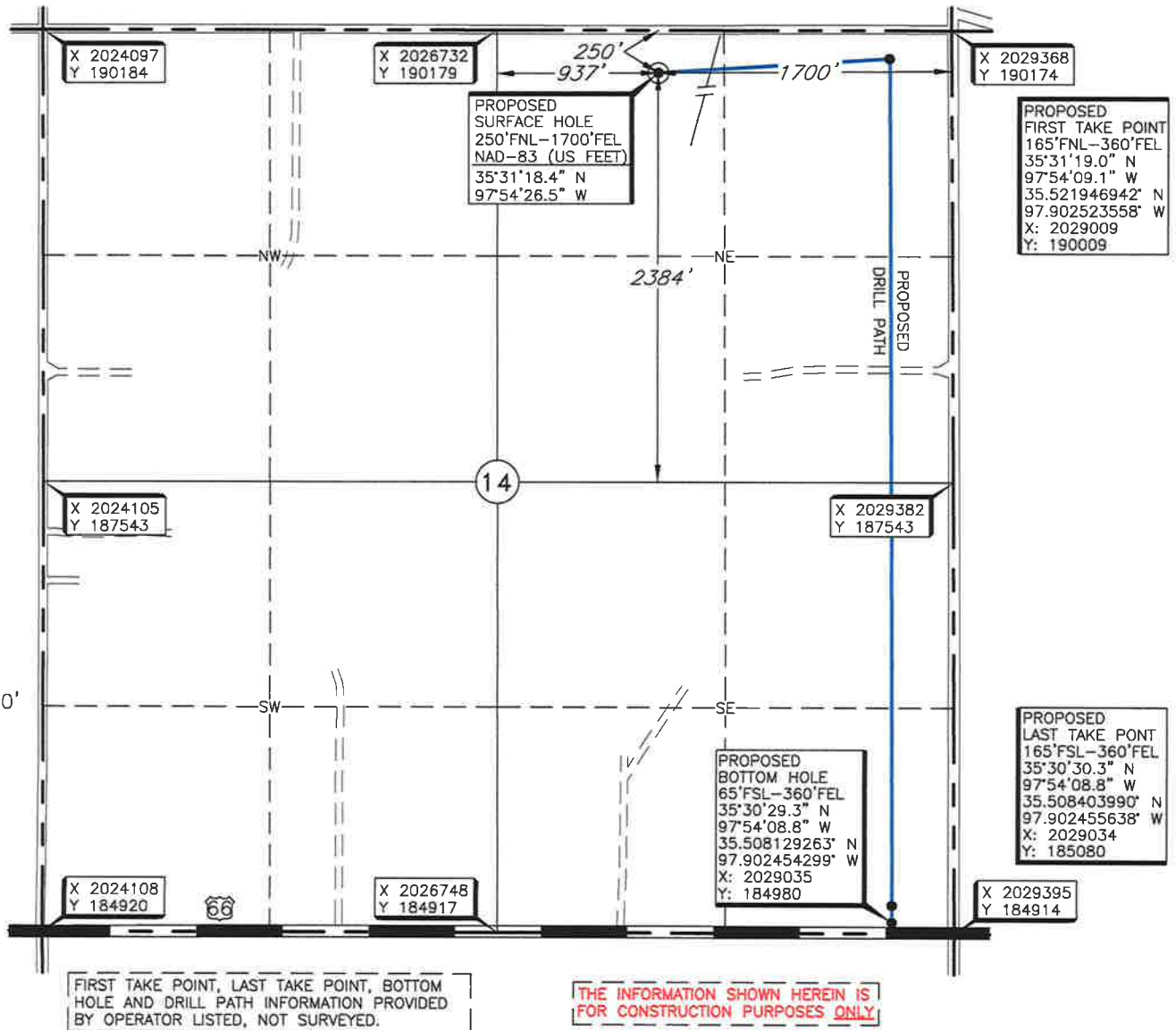
Certificate of Authorization No. 1293 LS

CANADIAN

County, Oklahoma

017-25372

250'FNL-1700'FEL Section 14 Township 12N Range 7W I.M.



Operator: PALOMA OPERATING COMPANY, INC.

Lease Name: PAMUNKEY 14-12N-7W

Well No.: 1MH

ELEVATION:

1310' Gr. at Stake (NAVD 88)

1309' Gr. at Stake (NGVD 29)

Topography & Vegetation Location fell in sloping plowed field

Good Drill Site? Yes 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 the junction of US. Hwy 66 & US Hwy 81 in El Reno, Oklahoma, go ±2 miles East
on US. Hwy 66, then ± 1 mile North to the Northeast Corner of Section 14, T12N-R7W.

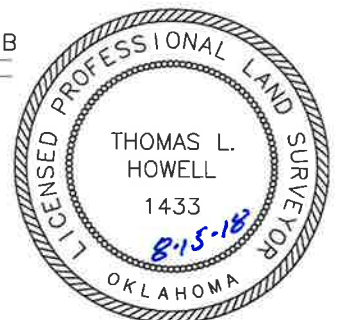
Revision ☒ A Date of Drawing: Aug. 15, 2018

Invoice # 298961 Date Staked: July 24, 2018 NB

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 Reg. No. 1433



DATUM: NAD-27
LAT: 35°31'18.2" N
LONG: 97°54'25.3" W
LAT: 35.521724748° N
LONG: 97.907024669° W
STATE PLANE
COORDINATES (US FEET):
ZONE: OK NORTH
X: 2027670
Y: 189927

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

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Certificate of Authorization No. 1293 LS

CANADIAN

County, Oklahoma

250'FNL-1700'FEL Section 14 Township 12N Range 7W I.M.



FIRST TAKE POINT, LAST TAKE POINT, BOTTOM HOLE AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED.

THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY

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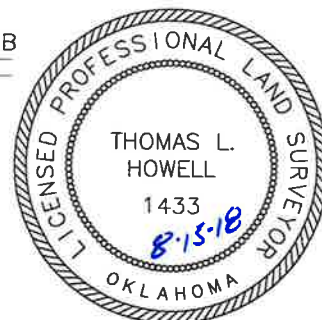
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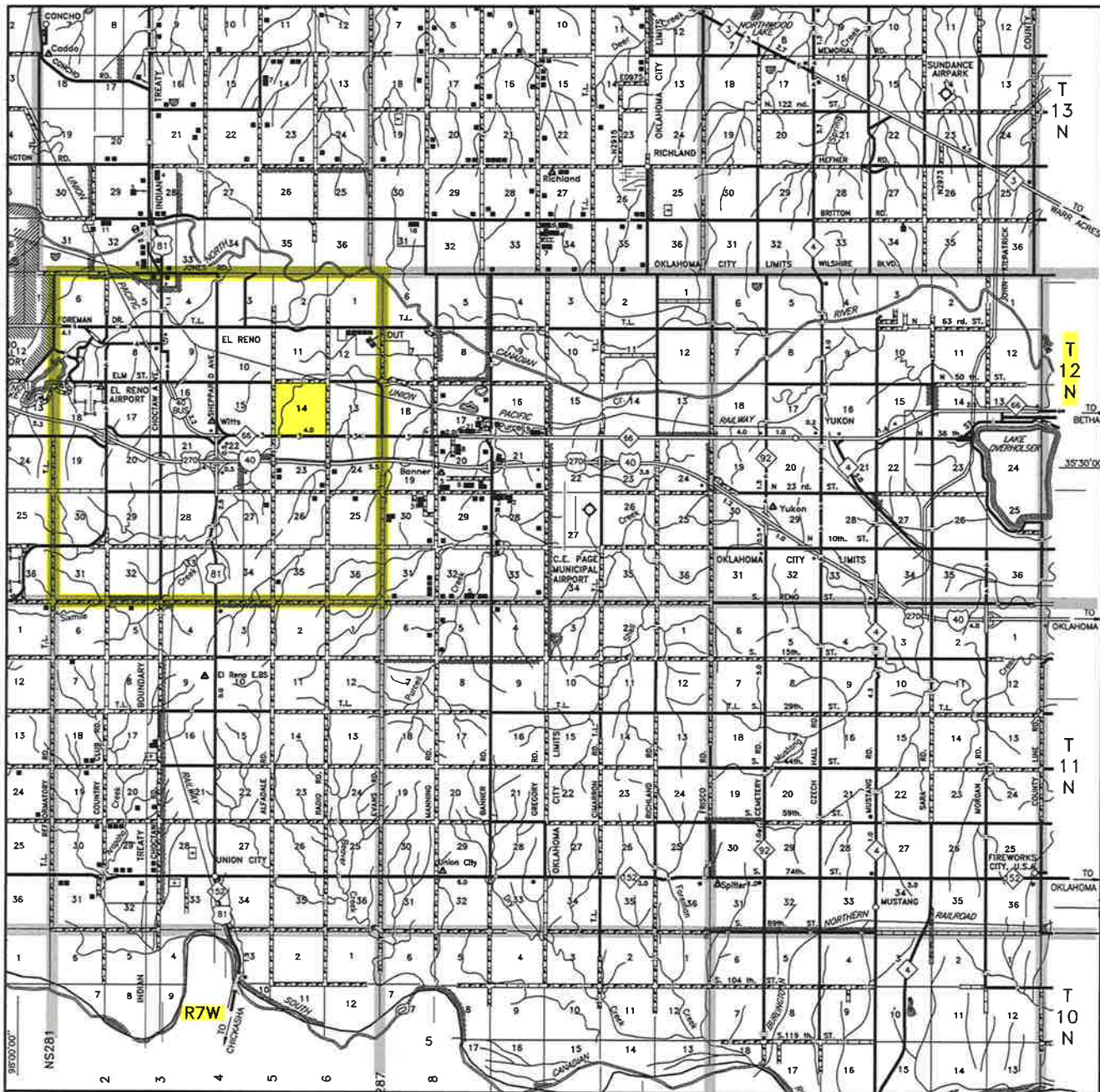
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

Surveying and Mapping for the Energy Industry

13800 Wireless Way Oklahoma City, OK 73134 www.topographic.com

Telephone Numbers: Local (405) 843-4847 Toll Free (800) 654-3219

VICINITY MAP



Scale: 1" = 3 Miles

Sec. 14 Twp. 12N Rng. 7W I.M.

County CANADIAN State OK

Operator PALOMA OPERATING COMPANY, INC.



LAND SURVEYORS OF OKLAHOMA

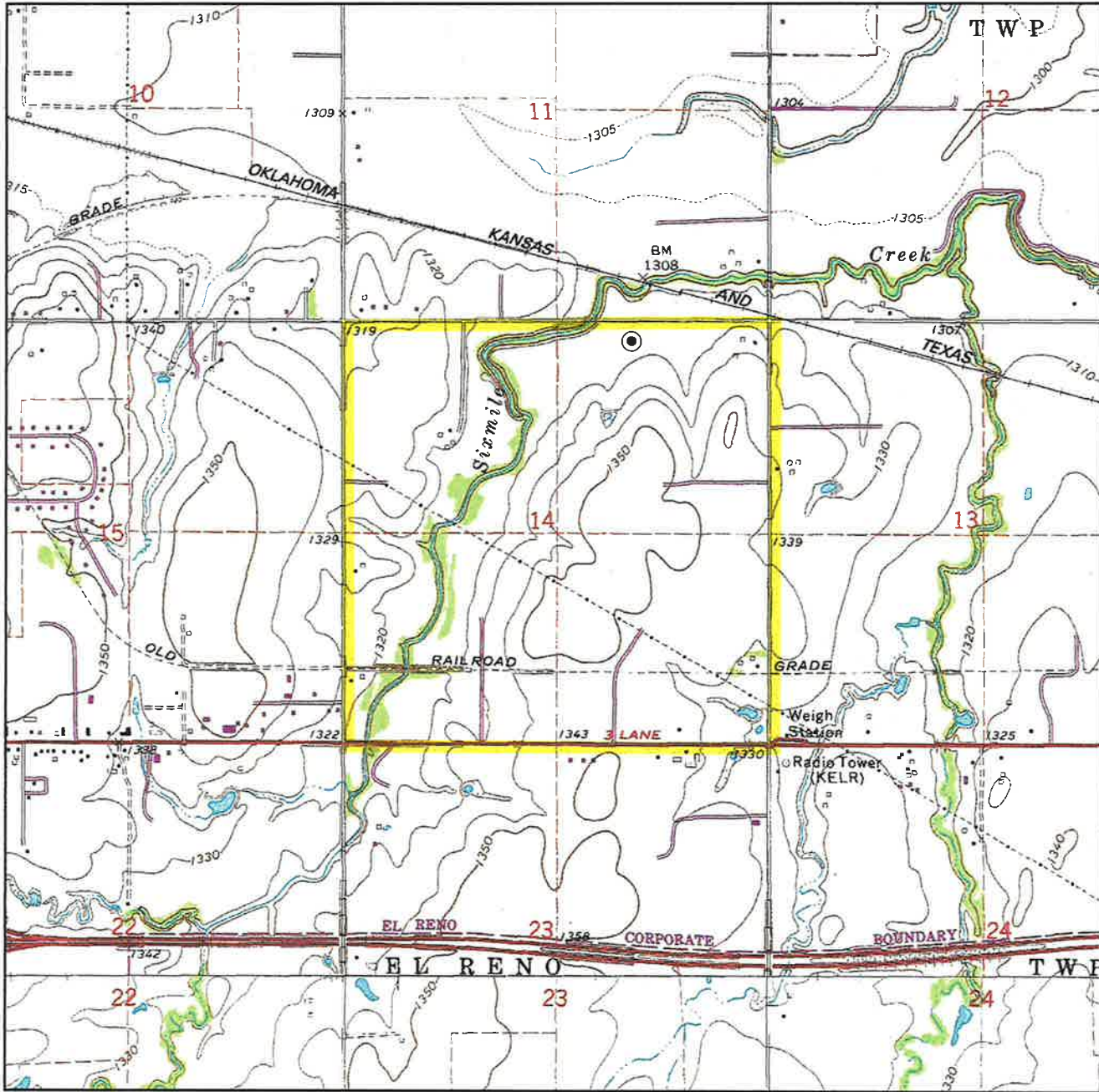
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LOCATION & ELEVATION VERIFICATION MAP



Sec. 14 Twp. 12N Rng. 7W I.M.

County CANADIAN State OK

Operator PALOMA OPERATING COMPANY, INC.

Description 250'FNL-1700'FEL

Lease PAMUNKEY 14-12N-7W 1MH

Elevation 1310' Gr. at Stake (NAVD 88)
1309' Gr. at Stake (NGVD 29)

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

July 24, 2018

T 12 N - R 7 W (INDIAN MERIDIAN)

PLAT SHOWING

PROPOSED PAD & ROAD AREA IN THE
NE/4 OF SECTION 14, T12N-R7W
CANADIAN COUNTY, OKLAHOMA

TOTAL ACREAGE WITHIN
PAD AND ROAD CONSTRUCTION
3.40 ACRES
(TOTAL EASEMENT: 5 ACRES)

