

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

API NUMBER: 017 25527

Approval Date: 09/19/2019

Expiration Date: 03/19/2021

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 11 Twp: 12N Rge: 7W

County: CANADIAN

SPOT LOCATION:

NW

SW

SE

SW

FEET FROM QUARTER: FROM

SOUTH

FROM

WEST

SECTION LINES:

605

1585

Lease Name: PAMUNKEY 14-12N-7W

Well No: 4MH

Well will be 605 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

HENRY DEL GIRARD
3027 EAST ELM ST
EL RENO OK 73036

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	8914	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 141057

Location Exception Orders:

Increased Density Orders: 701139

Pending CD Numbers: 201904183

Special Orders:

Total Depth: 14245

Ground Elevation: 1324

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 340

Deep surface casing has been approved

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: 3000 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: 19-36872

F. Haul to Commercial soil farming facility: Sec. 27 Twn. 17N Rng. 9W Cnty. 73 Order No: 659856

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 18 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: SE SE SE SW

Feet From: SOUTH 1/4 Section Line: 65

Feet From: WEST 1/4 Section Line: 2390

Depth of Deviation: 8834

Radius of Turn: 478

Direction: 175

Total Length: 4660

Measured Total Depth: 14245

True Vertical Depth: 9236

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

Notes:

Category

Description

DEEP SURFACE CASING

8/6/2019 - 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

8/6/2019 - 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: OCCWEB.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

INCREASED DENSITY - 701139

9/4/2019 - GB6 - 14-12N-7W
X141057 MSSP
4 WELLS
NO OP. NAMED
8/21/2019

MEMO

8/6/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS REQUIRED SIX MILE CREEK, PIT 1 - WBM & CUTTINGS TO ORDER # 659856, 27-17N-9W, KINGFISHER CO; PIT 2 - OBM TO VENDOR, OBM CUTTINGS TO ORDER # 647741, 22-16N-9W, KINGFISHER CO

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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.

017 25527 PAMUNKEY 14-12N-7W 4MH

PENDING CD - 201904183

9/4/2019 - GB6 - (I.O.) 14-12N-7W
X141057 MSSP
COMPL. INT. NCT 165' FNL, NCT 165' FSL, NCT 1000' FWL
NO OP. NAMED
REC. 9/16/2019 (PRESLAR)

SPACING - 141507

9/4/2019 - GB6 - (640) 14-12N-7W
EXT 124533 MSSP
EXT OTHERS
EST OTHER

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

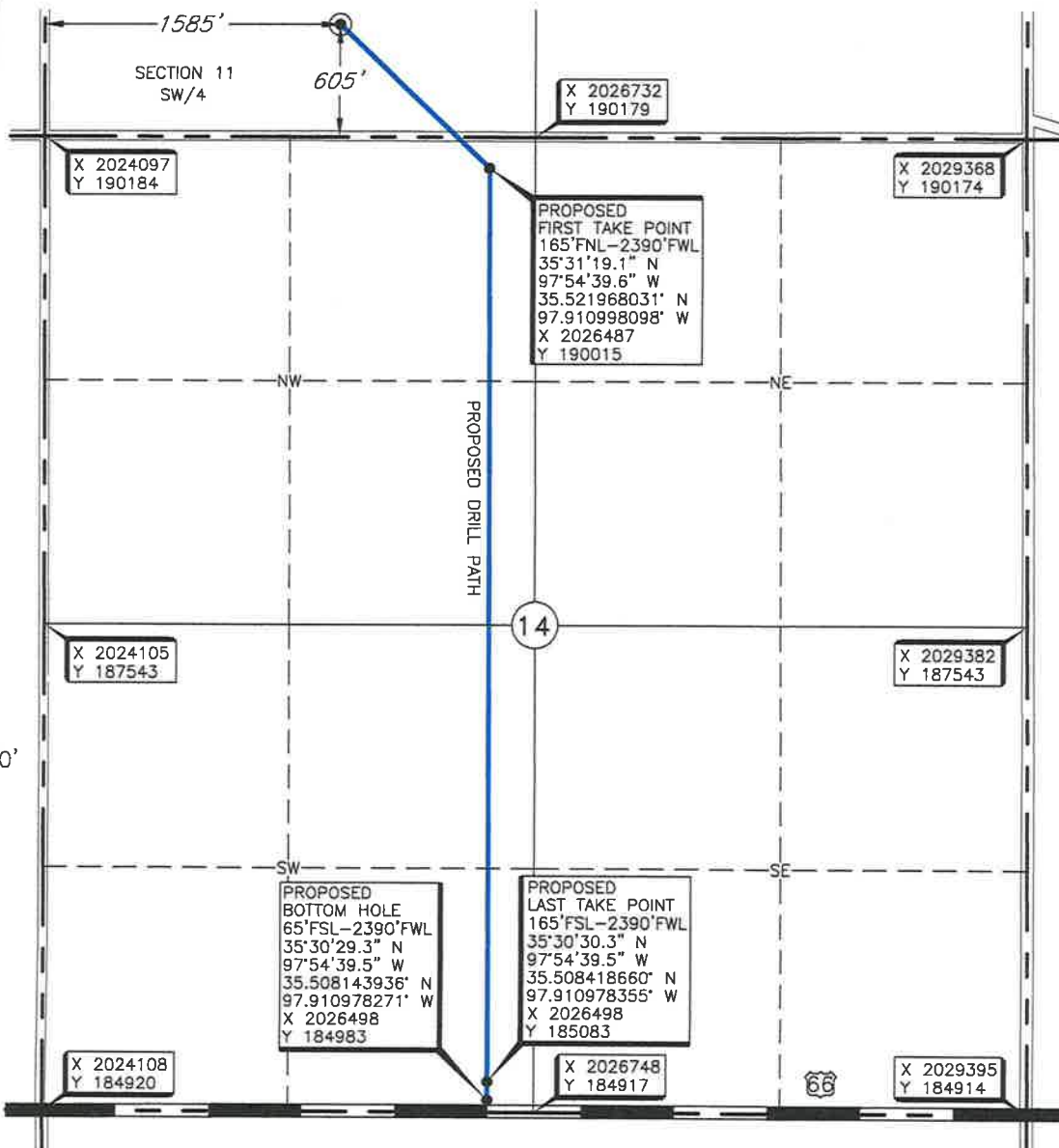
35-017-25527

CANADIAN

County, Oklahoma

605' FSL-1585' FWL Section 11 Township 12N Range 7W I.M.

PROPOSED
SURFACE HOLE
605' FSL-1585' FWL
NAD-83 (US FEET)
35°31'26.9" N
97°54'50.5" W



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

ELEVATION:

1324' Gr. at Stake (NAVD 88)
1324' Gr. at Stake (NGVD 29)

Operator: PALOMA OPERATING COMPANY, INC.

Lease Name: PAMUNKEY 14-12N-7W

Well No.: 4MH

Topography & Vegetation Location fell in pasture sloping downhill to the North.

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 the junction of US. Hwy 66 & US Hwy 81 in El Reno, Oklahoma, go ±1 miles East on US. Hwy 66, then ±1 mile North to the Southwest Corner of Section 11, T12N-R7W.

DATUM: NAD-27
LAT: 35°31'26.7" N
LONG: 97°54'49.3" W
LAT: 35.524089002° N
LONG: 97.913702457° W

STATE PLANE
COORDINATES (US FEET):
ZONE: OK NORTH

X: 2025682
Y: 190786

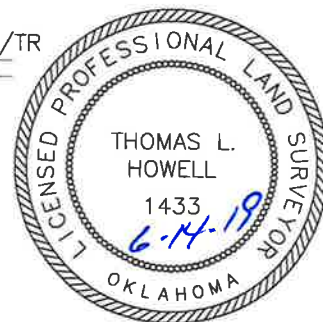
Date of Drawing: June 13, 2019
Project # 124257 Date Staked: Feb. 21, 2019 NB/TR

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



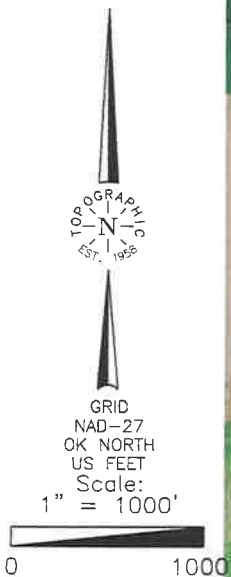
This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy

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County, Oklahoma

605' FSL-1585' FWL Section 11 Township 12N Range 7W I.M.

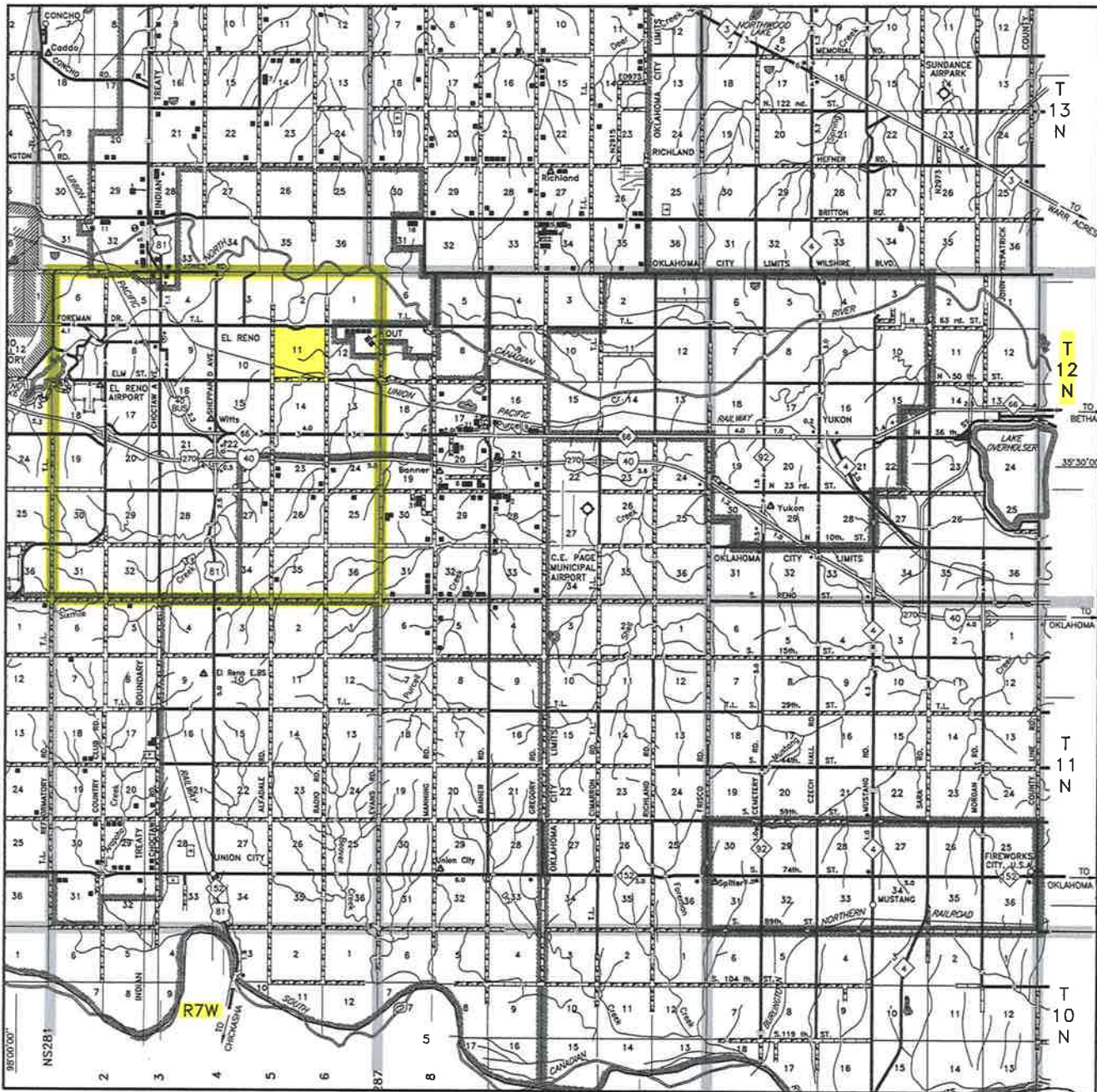
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TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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. 11 Twp. 12N Rng. 7W I.M.

County CANADIAN State OK

Operator PALOMA OPERATING COMPANY, INC.



LAND SURVEYORS OF OKLAHOMA

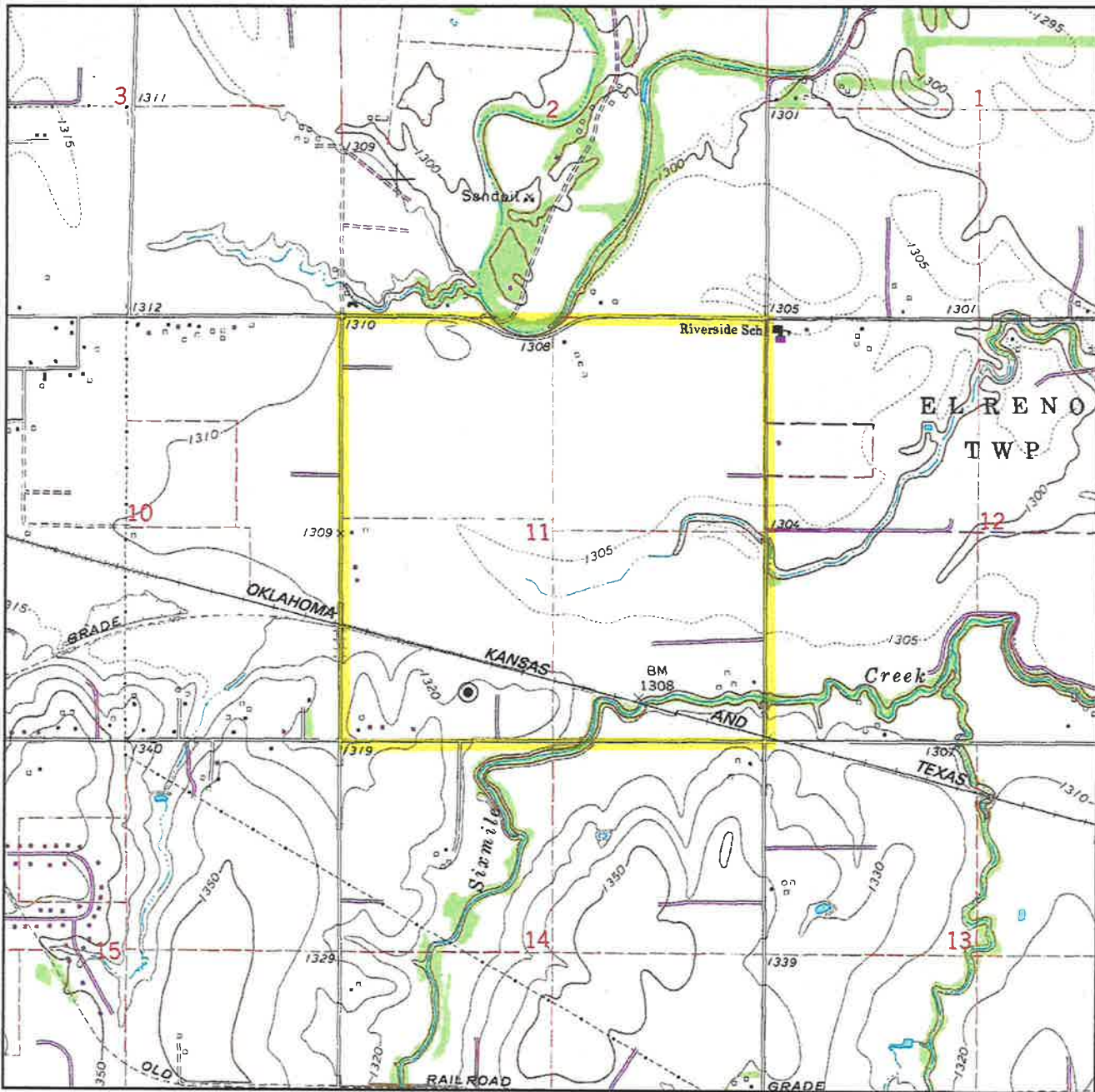
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LOCATION & ELEVATION VERIFICATION MAP



Sec. 11 Twp. 12N Rng. 7W I.M.

County CANADIAN State OK

Operator PALOMA OPERATING COMPANY, INC.

Description 605'FSL-1585'FWL

Lease PAMUNKEY 14-12N-7W 4MH

Elevation 1324' Gr. at Stake (NAVD 88)
1324' 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

Feb. 21, 2019