

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

API NUMBER: 017 25566

Approval Date: 12/03/2019

Expiration Date: 06/03/2021

Horizontal Hole
Multi Unit

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 17 Twp: 12N Rge: 8W

County: CANADIAN

SPOT LOCATION: ☐ NW ☐ NE ☐ NE ☐ NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 288 2012

Lease Name: SUMMER MOON 8_5-12N-8W

Well No: 9WHX

Well will be 288 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

CHARLES LAWRENCE
3 PEBBLE DR
ENID OK 73703

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

Name	Depth	Name	Depth
1 WOODFORD	11383	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 677774
663300
700284

Location Exception Orders: 699177

Increased Density Orders: 695950
695951

Pending CD Numbers:

Special Orders:

Total Depth: 21759

Ground Elevation: 1413

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 310

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 not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: DOG CREEK

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 19-37099

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 not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: DOG CREEK

HORIZONTAL HOLE 1

Sec 05 Twp 12N Rge 8W County CANADIAN

Spot Location of End Point: NE NE NE NW

Feet From: NORTH 1/4 Section Line: 65

Feet From: EAST 1/4 Section Line: 2631

Depth of Deviation: 10778

Radius of Turn: 478

Direction: 3

Total Length: 10230

Measured Total Depth: 21759

True Vertical Depth: 11470

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

Notes:

Category

Description

BHL 12/2/2019 - GB1 - 65' FNL, 2649' FWL OF NE NE NE NW 5-12N-8W; CHANGED BHL TO FIT ITD SYSTEM; WILL NOT TAKE A NUMBER >2640'

DEEP SURFACE CASING 11/18/2019 - 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 11/18/2019 - 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

INCREASED DENSITY - 695950 (201901695) 12/2/2019 - GB1 - 5-12N-8W
X677774 WDFD
6 WELLS
NO OP. NAMED
5/10/2019

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.

017 25566 SUMMER MOON 8_5-12N-8W
9WHX

INCREASED DENSITY - 695951 (201901697)	12/2/2019 - GB1 - 8-12N-8W X663300 WDFD 6 WELLS NO OP. NAMED 5/10/2019
LOCATION EXCEPTION - 699177 (201901713)	12/2/2019 - GB1 - (I.O.) 8 & 5-12N-8W X663300 WDFD 8-12N-8W X677774 WDFD 5-12N-8W X165:10-3-28(C)(2)(B) WDFD MAY BE CLOSER THAN 600' TO PROPOSED WELLS COMPL. INT. (8-12N-8W) NCT 165' FSL, NCT 0' FNL, NCT 990' FWL COMPL. INT. (5-12N-8W) NCT 0' FSL, NCT 165' FNL, NCT 900' FWL*** PALOMA OPERATING CO. INC 7/15/2019 *** S/B 990' FWL; WILL BE CORRECTED PER ATTORNEY FOR OPR AT FINAL HEARING
MEMO	11/18/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 663300	12/2/2019 - GB1 - (640) 8-12N-8W EXT 575475 WDFD
SPACING - 677774	12/2/2019 - GB1 - (640) 5-12N-8W EXT 663300 WDFD
SPACING - 700284 (201901712)	12/2/2019 - GB1 - (I.O.) 8 & 5-12N-8W EST MULTIUNIT HORIZONTAL WELL X663300 WDFD 8-12N-8W X677774 WDFD 5-12N-8W 50% 8-12N-8W 50% 5-12N-8W PALOMA PARTNERS IV, LLC 8/5/2019

CANADIAN

County, Oklahoma

288°FNL-2012°FWL Section 17 Township 12N Range 8W I.M.

X 1978008
Y 200653X 1979324
Y 200651X 1980630
Y 2006533rd Standard
Parallel NorthX 1976641
Y 200653PROPOSED
BOTTOM HOLE
65°FNL-2649°FWL
35°33'03.7" N
98°04'10.6" W
35.551024473" N
98.069617085" W
X 1979290
Y 200586PROPOSED
LAST TAKE POINT
165°FNL-2642°FWL
35°33'02.7" N
98°04'10.7" W
35.550749761" N
98.069640519" W
X 1979283
Y 200486X 1981909
Y 200655

LOT 4

LOT 3

LOT 1

S/2-NW/4

S/2-NE/4

X 1976647
Y 198090X 1981913
Y 198108X 1976654
Y 195452X 1979286
Y 195462X 1981918
Y 195473X 1976652
Y 192820X 1981921
Y 192833PROPOSED
FIRST TAKE POINT
165°FNL-1920°FWL
35°31'22.5" N
98°04'19.3" W
35.522913773" N
98.072014192" W
X 1978570
Y 190355PROPOSED
KICKOFF POINT
330°FNL-1885°FWL
35°31'17.6" N
98°04'19.7" W
35.521553734" N
98.072130124" W
X 1978535
Y 189860PROPOSED
SURFACE HOLE
288°FNL-2012°FWL
NAD-83 (US FEET)
35°31'18.2" N
98°04'19.3" WX 1979291
Y 190190X 1981925
Y 190193SECTION 17
NW/4
288'
2012'X 1976649
Y 190188THE INFORMATION SHOWN HEREIN IS
FOR CONSTRUCTION PURPOSES ONLYKICKOFF POINT, FIRST TAKE POINT, LAST TAKE
POINT, BOTTOM HOLE, AND DRILL PATH
INFORMATION PROVIDED BY OPERATOR LISTED,
NOT SURVEYED.Operator: PALOMA OPERATING COMPANY, INC.
Lease Name: SUMMER MOON 8-5-12N-8W

Well No.: 9WHX

Topography & Vegetation Location fell on existing pad.

Reference Stakes or Alternate Location

Good Drill Site? Yes

Stakes Set None

Best Accessibility to Location

Distance & Direction From North off county road

From the junction of Heaston Road & I-40, go ±0.5 mile South on Heaston Road to the

Northwest Corner of Section 17, T12N-R8W.

ELEVATION:

1413' Gr. at Existing Pad (NAVD 88)
1413' Gr. at Existing Pad (NGVD 29)

DATUM: NAD-27

LAT: 35°31'18.0" N

LONG: 98°04'18.1" W

LAT: 35.521669503° N

LONG: 98.071704400° W

STATE PLANE

COORDINATES (US FEET):

ZONE: OK NORTH

X: 1978662

Y: 189902

Revision 5

Date of Drawing: Nov. 6, 2019

Project # 123274

Date Staked: Feb. 21, 2019

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 Lic. No. 1433

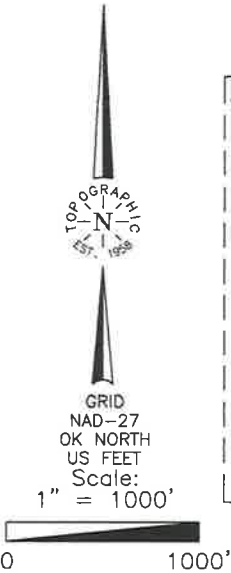
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

13800 Wireless Way, Okla. City, OK. 73134 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
Certificate of Authorization No. 1293 LS

CANADIAN

County, Oklahoma

288°FNL-2012°FWL Section 17 Township 12N Range 8W I.M.



THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY

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

Operator: PALOMA OPERATING COMPANY, INC.
Lease Name: SUMMER MOON 8-5-12N-8W
Topography & Vegetation Location fell on existing pad.
Well No.: 9WHX

Good Drill Site? Yes
Best Accessibility to Location From North off county road
Distance & Direction from Hwy Jet or Town From the junction of Heaston Road & I-40, go ±0.5 mile South on Heaston Road to the Northwest Corner of Section 17, T12N-R8W.

Reference Stakes or Alternate Location
Stakes Set None

ELEVATION:
1413' Gr. at Existing Pad (NAVD 88)
1413' Gr. at Existing Pad (NGVD 29)



Revision ☒ 5 Date of Drawing: Nov. 6, 2019
Project # 123274 Date Staked: Feb. 21, 2019 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 Lic. No. 1433



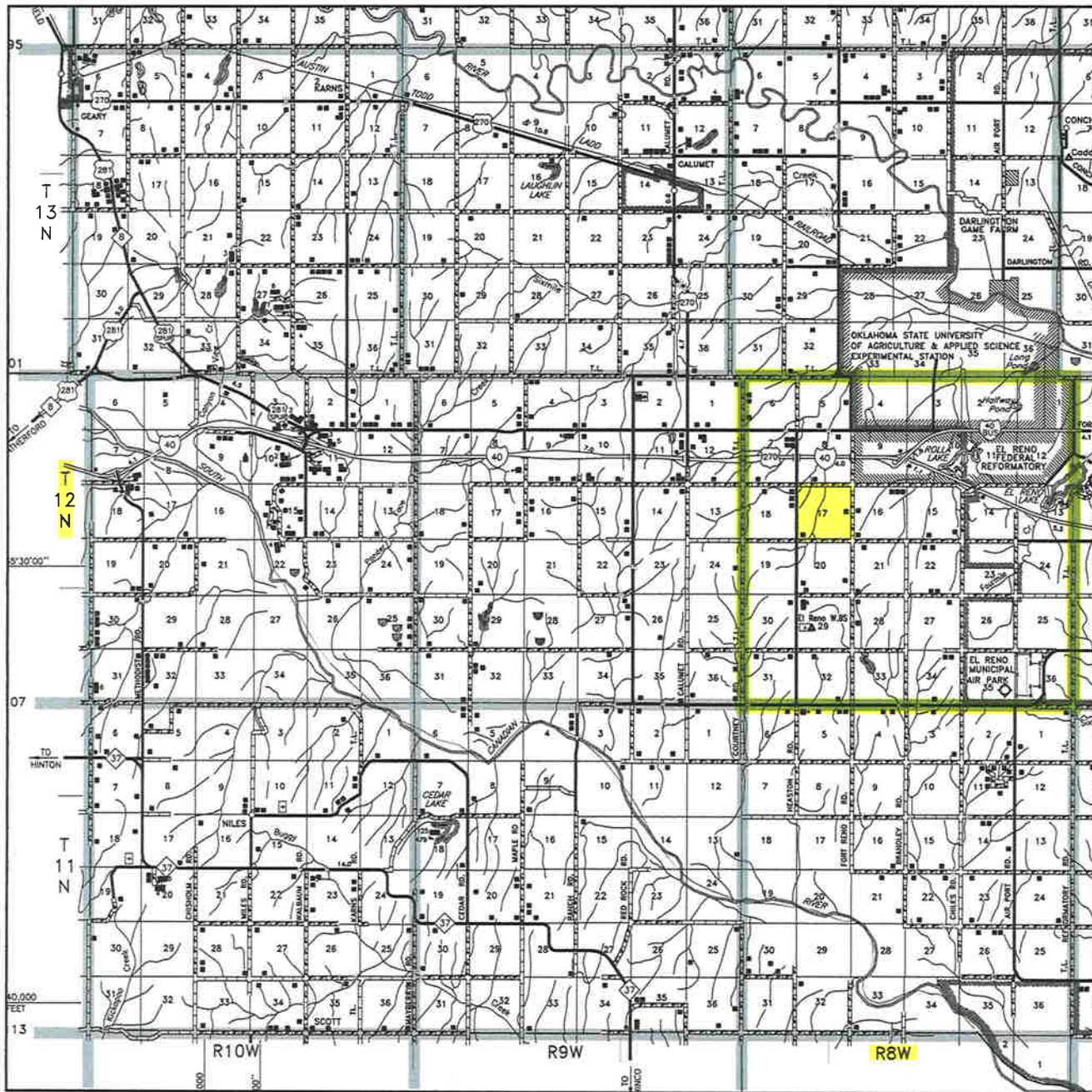
DATUM: NAD-27
LAT: 35°31'18.0" N
LONG: 98°04'18.1" W
LAT: 35.521669503° N
LONG: 98.071704400° W
STATE PLANE COORDINATES (US FEET):
ZONE: OK NORTH
X: 1978662
Y: 189902

was gathered with a GPS receiver with 1± ft Horiz. accuracy, and 1± ft Vert. accuracy.

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. 17 Twp. 12N Rng. 8W I.M.

County CANADIAN State OK

Operator PALOMA OPERATING COMPANY, INC.



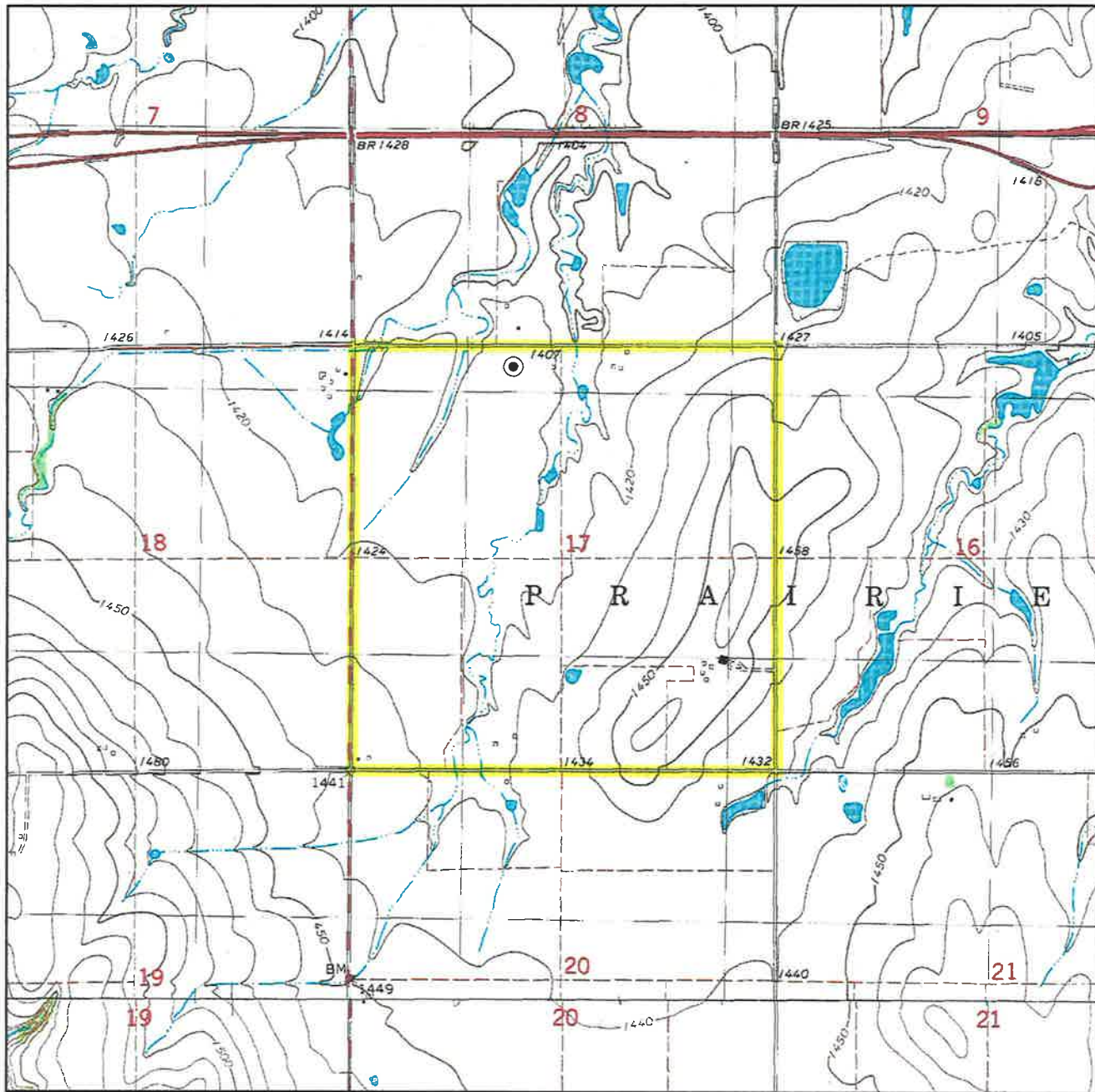
TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

LAND SURVEYORS OF OKLAHOMA

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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LOCATION & ELEVATION VERIFICATION MAP



Sec. 17 Twp. 12N Rng. 8W I.M.

County CANADIAN State OK

Operator PALOMA OPERATING COMPANY, INC.

Description 288'FNL-2012'FWL

Lease SUMMER MOON 8-5-12N-8W 9WHX

Elevation 1414' Gr. at Existing Pad (NAVD 88)
1413' Gr. at Existing Pad (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

Nov. 5, 2019