API NUMBER: 017 25518

Oil & Gas

Horizontal Hole

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

Approval Date: 09/04/2019
Expiration Date: 03/04/2021

PERMIT TO DRILL

WELL LOCATION: Sec: 11	Twp:	12N	Rge:	7W	County:	CANADIAN
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SPOT LOCATION: NW SW SE SW FEET FROM QUARTER: FROM SOUTH FROM WEST SECTION LINES: 605 1545

Lease Name: PAMUNKEY 14-12N-7W Well No: 7MH Well will be 605 feet from nearest unit or lease boundary.

Operator 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	Dep	th
1	MISSISSIPPIAN	8944 6			
2		7			
3		8			
4		9			
5		10			
Spacing Orders:	141057	Location Exception Orders:		Increased Density Orders:	701139

Pending CD Numbers: 201903345 Special Orders:

Total Depth: 14278 Ground Elevation: 1324 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

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED Chlorides Max: 3000 Average: 1500

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

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 19-36874
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

#### 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 SW SW SW Feet From: SOUTH 1/4 Section Line: 65
Feet From: WEST 1/4 Section Line: 400

Depth of Deviation: 8867 Radius of Turn: 478 Direction: 185

Total Length: 4660

Measured Total Depth: 14278

True Vertical Depth: 9269

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:

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 - 701139 9/4/2019 - GB6 - 14-12N-7W

X141057 MSSP 4 WELLS NO OP. NAMED 8/21/2019

MEMO 8/6/2019 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 1 -

WBM & CUTTINGS TO ORDER # 659856, 22-17N-9W, KINGFISHER CO; PIT 2 - OBM TO VENDOR,

OBM CUTTINGS TO ORDER # 647741, 22-16N-9W, KINGFISHER CO

Category Description

PENDING CD - 201903345 9/4/2019 - GB6 - (I.O.) 14-12N-7W

X141057 MSSP

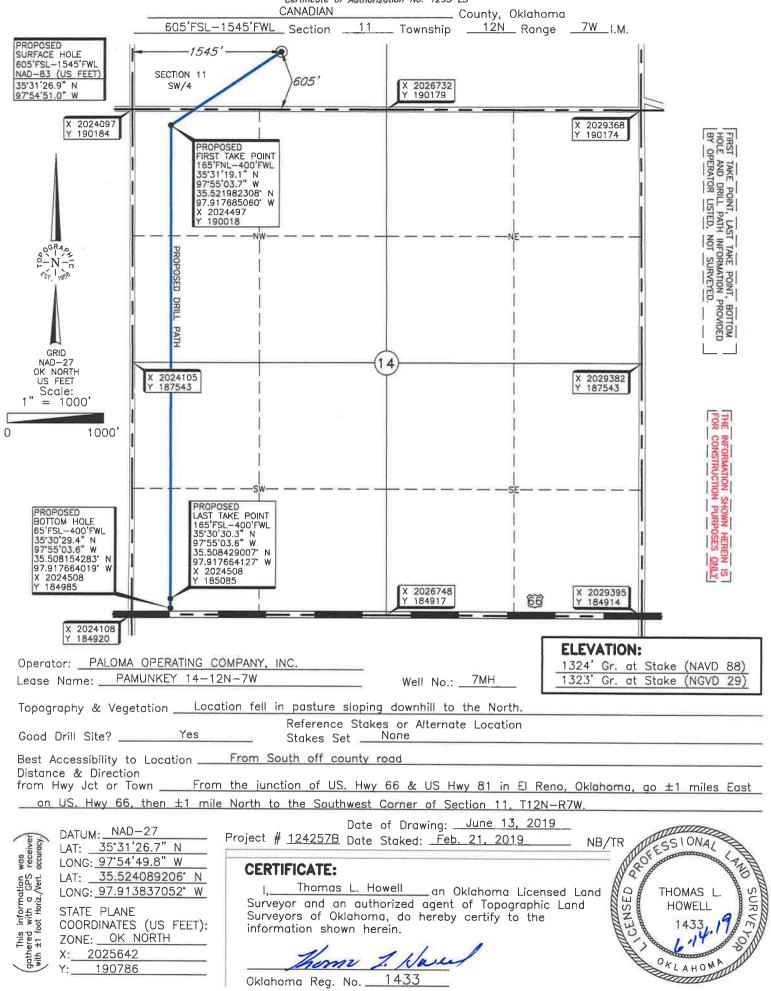
COMPL. INT. NCT 165' FNL, NCT 165' FSL, NCT 330' FWL

NO OP. NAMED

REC. 7/15/2019 (MOORE)

SPACING - 141507 9/4/2019 - GB6 - (640) 14-12N-7W

EXT 124533 MSSP EXT OTHERS EST OTHER



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 605'FSL-1545'FWL Section 7W\_LM. 11 Township 12N Range PROPOSED SURFACE HOLE 605'FSL-1545'FWL NAD-83 (US FEET 35'31'26.9" N 97'54'51.0" W X 2024097 Y 190184 FIRST TAKE POINT, LAST TAKE POINT, HOLE AND DRILL PATH INFORMATION I BY OPERATOR LISTED, NOT SURVEYED. GRID NAD-27 OK NORTH US FEET 187543 Scale: = 1000' 1000 PROPOSED BOTTOM HOLE 65'FSL-400'FWL 35'30'29.4" N 97°55'03.6" W 35.508154283\* 97-917664019 2024508 184985 Y 184920 **ELEVATION:** Operator: PALOMA OPERATING COMPANY, INC. 1324' Gr. at Stake (NAVD 88) Lease Name: PAMUNKEY 14-12N-7W 1323' Gr. at Stake (NGVD 29) Well No.: \_\_ 7MH Topography & Vegetation Location fell in pasture sloping downhill to the North. Reference Stakes or Alternate Location Yes None Good Drill Site? \_\_\_\_\_ Stakes Set = Best Accessibility to Location \_\_\_\_\_From South off county road Distance & Direction From the junction of US. Hwy 66 & US Hwy 81 in El Reno, Oklahoma, go ±1 miles East from Hwy Jct or Town \_ on US. Hwy 66, then ±1 mile North to the Southwest Corner of Section 11, T12N-R7W. THE STONAL Date of Drawing: \_\_June 13, 2019 DATUM: NAD-27 Project # <u>124257B</u> Date Staked: <u>Feb. 21, 2019</u> NB/TR LAT: 35°31'26.7" N LONG: 97'54'49.8" W **CERTIFICATE:** is information we described with a GPS refoot Horiz./Vert. a LAT: 35.524089206' N Thomas L. Howell LONG: 97.913837052° W ENSED \_\_an Oklahoma Licensed Land THOMAS L Surveyor and an authorized agent of Topographic Land HOWELL STATE PLANE Surveyors of Oklahoma, do hereby certify to the COORDINATES (US FEET): information shown herein. ZONE: OK NORTH X: 2025642 OKLAHOMP 190786 

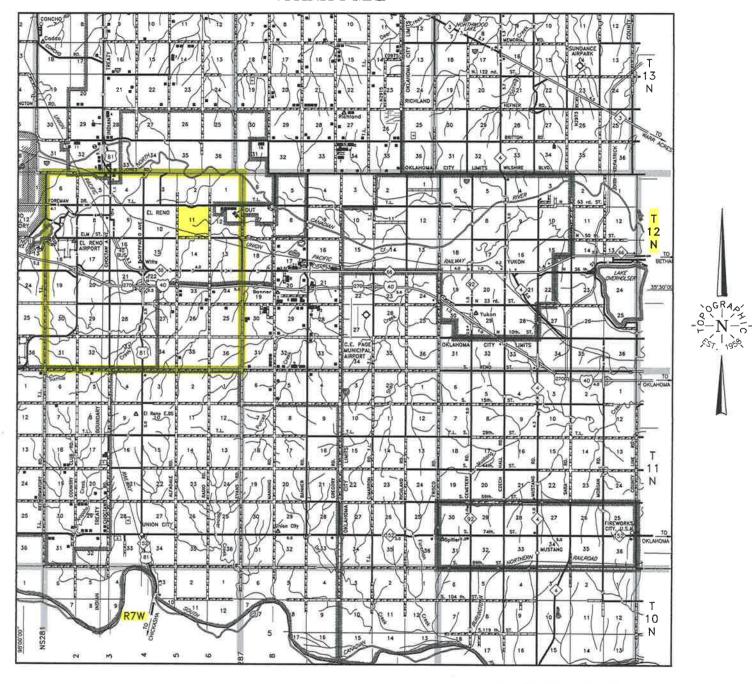
Oklahoma Reg. No. \_\_\_

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

## 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

557 1959

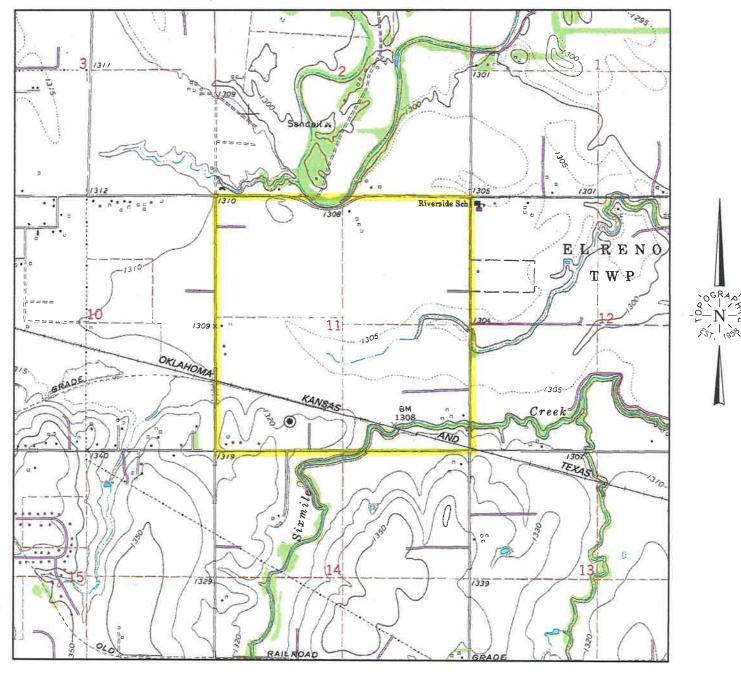
Sec11	Twp	12N R	ng7W	1.M.
County	CANADIAN	Stat	eOK	
Operator	PALOMA O	PERATING	COMPANY,	INC.



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## LOCATION & ELEVATION VERIFICATION MAP



Sec11	Twp	<u> 12N</u> ]	Rng	7W	I.M.
County	CANADIAN	Sta	ite	OK	
Operator	PALOMA	OPERATING	СОМ	PANY,	INC.
Description	605'FSL-	-1545'FWL			
Lease	PAMUNKE	Y 14-12N	_7W	7МН	
Elevation_	1324' Gr. ( 1323' Gr. (	at Stake ( at Stake (	NAVD NGVD	88) 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