

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

API NUMBER: 087 22282

Approval Date: 12/03/2019

Expiration Date: 06/03/2021

Straight Hole

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 27 Twp: 5N Rge: 3W

County: MCCLAIN

SPOT LOCATION:

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 2640 440

Lease Name: RAY

Well No: 1-27

Well will be 440 feet from nearest unit or lease boundary.

Operator Name: OKLAND OIL COMPANY

Telephone: 8063233000

OTC/OCC Number: 7910 0

OKLAND OIL COMPANY
110 N ROBINSON AVE STE 400
OKLAHOMA CITY, OK 73102-9022

STATE OF OKLAHOMA
204 N ROBINSON, SUITE 900
OKLAHOMA CITY OK 73102

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

	Name	Depth	Name	Depth
1	DEESE	7400	6	
2	WOODFORD	7665	7	
3	HUNTON	7725	8	
4	VIOLA	8300	9	
5	SIMPSON	8835	10	

Spacing Orders: 683979

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 9400

Ground Elevation: 1017

Surface Casing: 500

Depth to base of Treatable Water-Bearing FM: 310

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

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: 3000

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 BED AQUIFER

Pit Location Formation: PURCELL

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

PERMIT NO: 19-37094

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

Notes:

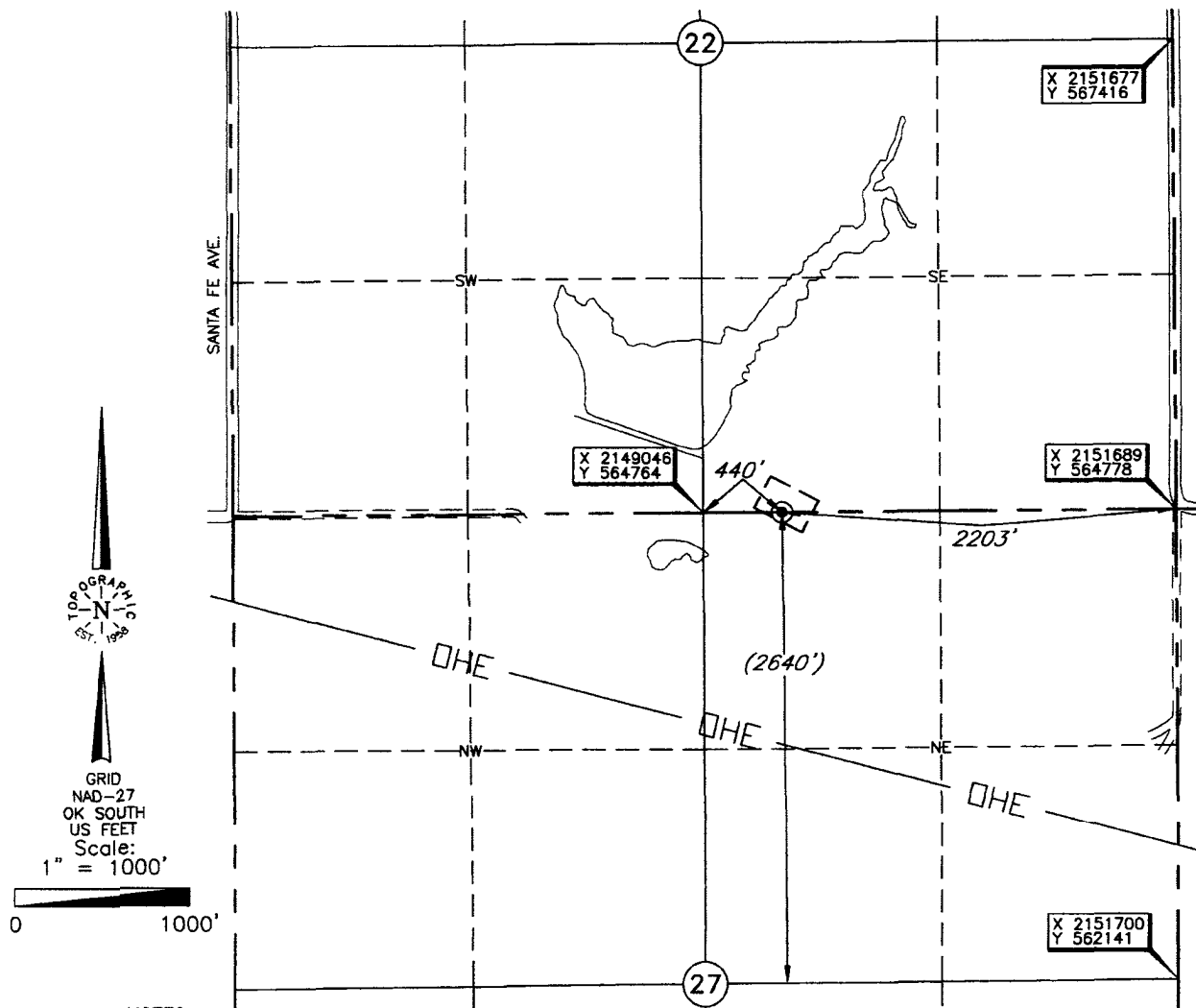
This permit does not address the right of entry or settlement of surface damages.
The duration of this permit is 18 MONTHS, except as otherwise provided by Rule 165: 10-3-1.
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

Category	Description
HYDRAULIC FRACTURING	<p>11/27/2019 - G71 - 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: OCCEWEB.COM/OG/OGFORMS.HTML; 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: FRACFOCUS.ORG</p>
SPACING - 683979	<p>11/27/2019 - GB6 - (60) S2 SW4 SE4 22 AND NW4 NE4 27 -5N-3W (20) N2 SW4 SE4 22-5N-3W LD (NE4 SW4 SE4) (40) SW4 NE4 27-5N-3W VAC 38065 DSNLY, SPDS IN SW4 SE4 22-5N-3W VAC 39522 HNTN IN SW4 SE4 22-5N-3W VAC 308354 OLCK, MCLS IN W2 NE4 27-5N-3W VAC 421584 HRTNL, WDFD, HNTN, VIOL, SDLBR IN NW4 NE4 27-5N-3W EST DEESS, WDFD, HNTN, VIOL, SMPS</p>
WATERSHED STRUCTURE	<p>11/27/2019 - G71 - WELL WITHIN 1/2 MILE OF AN OKLAHOMA CONSERVATION COMMISSION WATERSHED STRUCTURE. CONTACT THE LOCAL CONSERVATION DISTRICT OFFICE AT (405) 527-3452 PRIOR TO DRILLING</p>

MCCLAIN

County, Oklahoma

0°FNL - 2203°FEL Section 27 Township 5N Range 3W I.M.



NOTES:

- THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY

Distances shown in (parenthesis) are calculated based upon the Quarter Section being 2640 feet, those shown in [brackets] are based on GLO (General Land Office) distances and have NOT been measured on the ground.

Operator: OKLAND OIL COMPANY

Lease Name: RAY

Well No.: 1-27

ELEVATION:

1017' Gr. at Stake

Topography & Vegetation Loc. fell in slopping pasture with scattered trees

Good Drill Site? Yes Reference Stakes or Alternate Location
Stakes Set None

Best Accessibility to Location From NW corner of Sec. 27 on trail road

Distance & Direction

from Hwy Jct or Town From Jct. St. Hwy. 59 and Santa Fe. Ave. East of Payne, OK, go ±1.0 mi. South on Santa Fe. Ave., then ±0.3 mi. East to fence, then ±0.3 mi. across pasture the loc. in the NE/4 of Sec. 27-T5N-R3W

Revision ☒ A Date of Drawing: Nov. 26, 2019

Project # 131518 Date Staked: Nov. 22, 2019

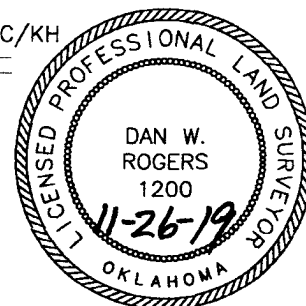
AC/KH

DATUM: NAD-27
LAT: 34°53'03.3"N
LONG: 97°30'05.6"W
LAT: 34.884240300° N
LONG: 97.501567603° W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK SOUTH
X: 2149486
Y: 564766

CERTIFICATE:

I, DAN W. ROGERS an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein

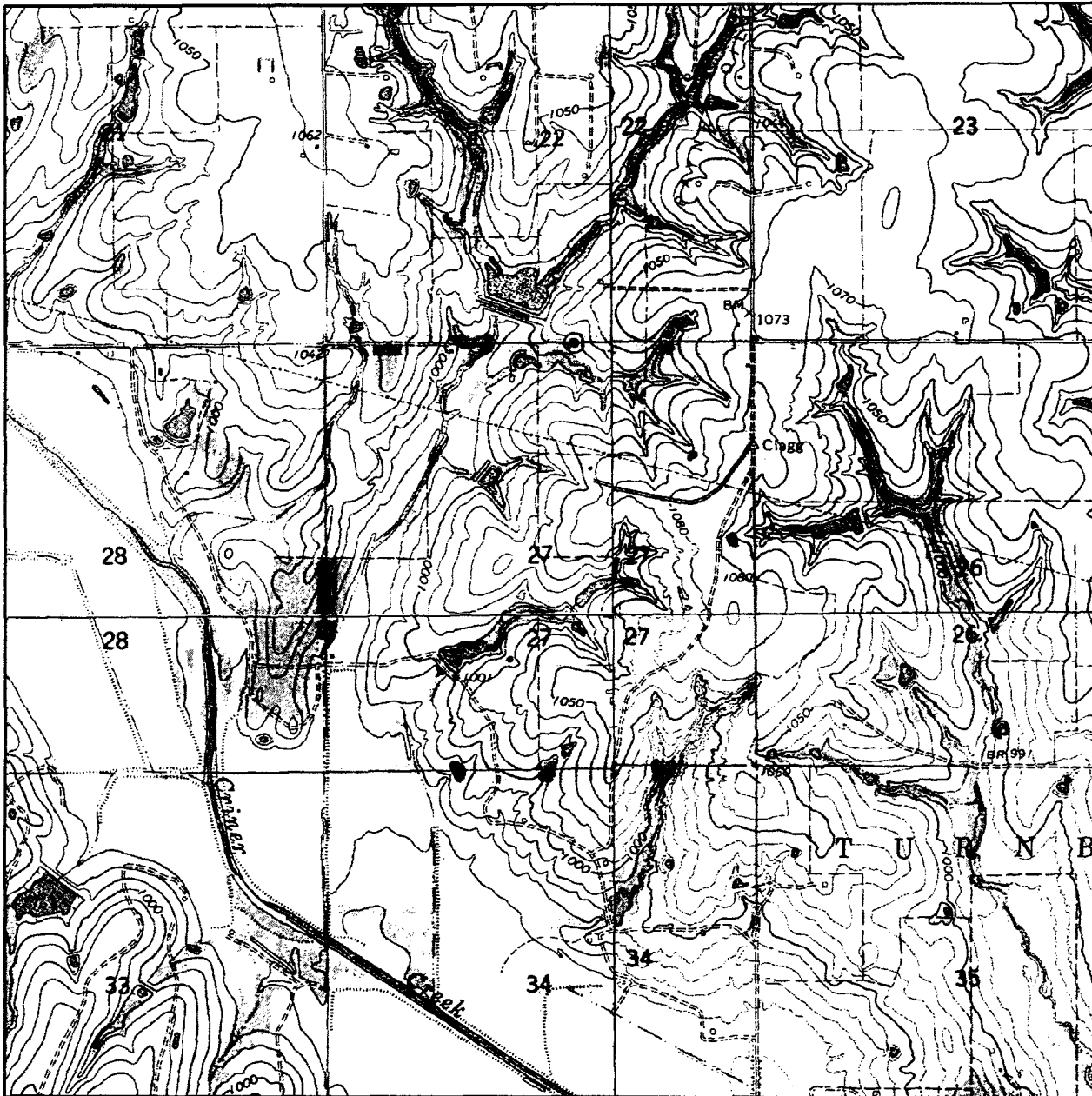
Dan W. Rogers
Oklahoma Lic. No. 1200



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. 27 Twp. 5N Rng. 3W IM

County MCCLAIN State OK

Operator OKLAND OIL COMPANY

Description 0'FNL - 2203'FEL

Lease RAY 1-27

Elevation 1017' Gr. at Stake

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.



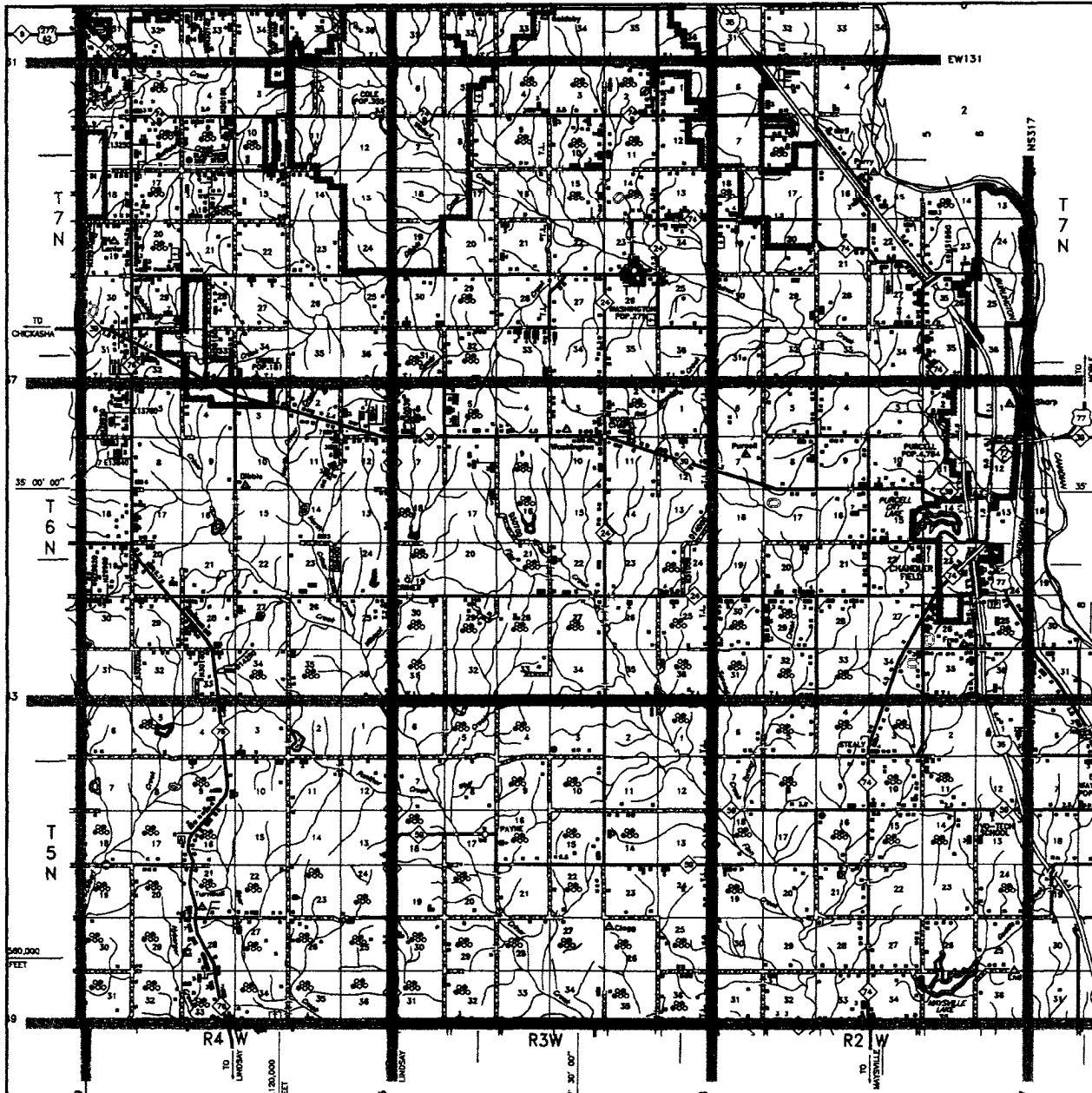
LAND SURVEYORS OF OKLAHOMA

Nov. 22, 2019

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VICINITY MAP



Scale: 1" = 3 Miles

Sec. 27 Twp. 5N Rng. 3W IM

County MCCLAIN State OK

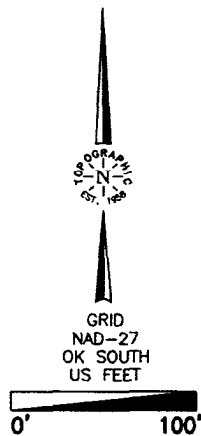
Operator OKLAND OIL COMPANY



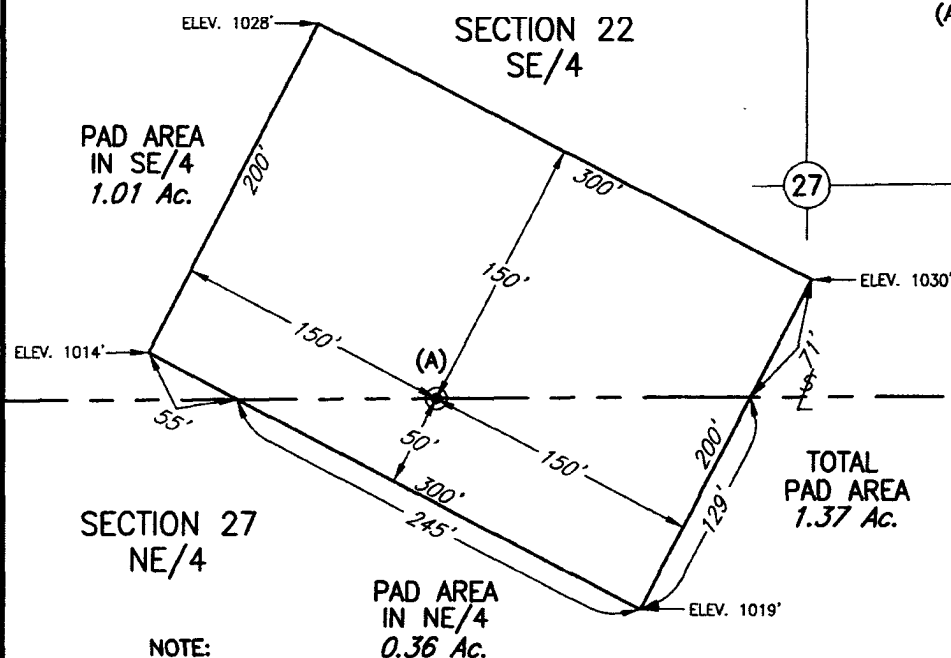
TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

LAND SURVEYORS OF OKLAHOMA

T 5 N - R 3 W
(INDIAN MERIDIAN)



PLAT SHOWING
PROPOSED PAD AREA IN
SECTIONS 22 & 27, T5N - R3W
McCLAIN COUNTY, OKLAHOMA



(A) OKLAND OIL COMPANY
Ray #1-27
0'FNL - 2203'FEL
Elev. 1017' Gr.

VICINITY MAP
SCALE: 1" = 1000'



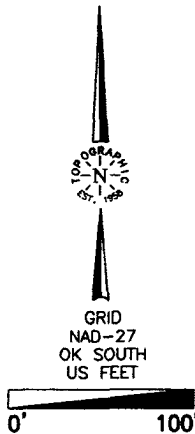
NOTE:
The information shown herein is
for construction purposes **ONLY**.

1	LOCATION	11-25-19	KH
NO.	REVISION	DATE	BY
SUR. BY:	RD	11-13-19	
DRAWN BY:	RKM		
APPROVED BY:	DWR		

This plot was prepared exclusively for
OKLAND OIL COMPANY
and may not be relied upon by any other entity without the written consent of Topographic Land Surveyors of Oklahoma
SURVEYING AND MAPPING BY
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA
13800 Wireless Way, Okla. City, OK. 73134 (405) 843-4847
Certificate of Authorization No. 1293 LS

SCALE:	1" = 100'
DATE:	11-15-19
INVOICE NO.:	131518
FILE NAME:	RAY 1-27-SH. 1
DWG NO.:	RAY 1-27 PAD.DWG
SHEET	1 OF 3

T 5 N - R 3 W
(INDIAN MERIDIAN)

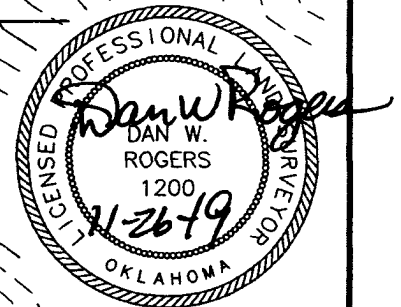
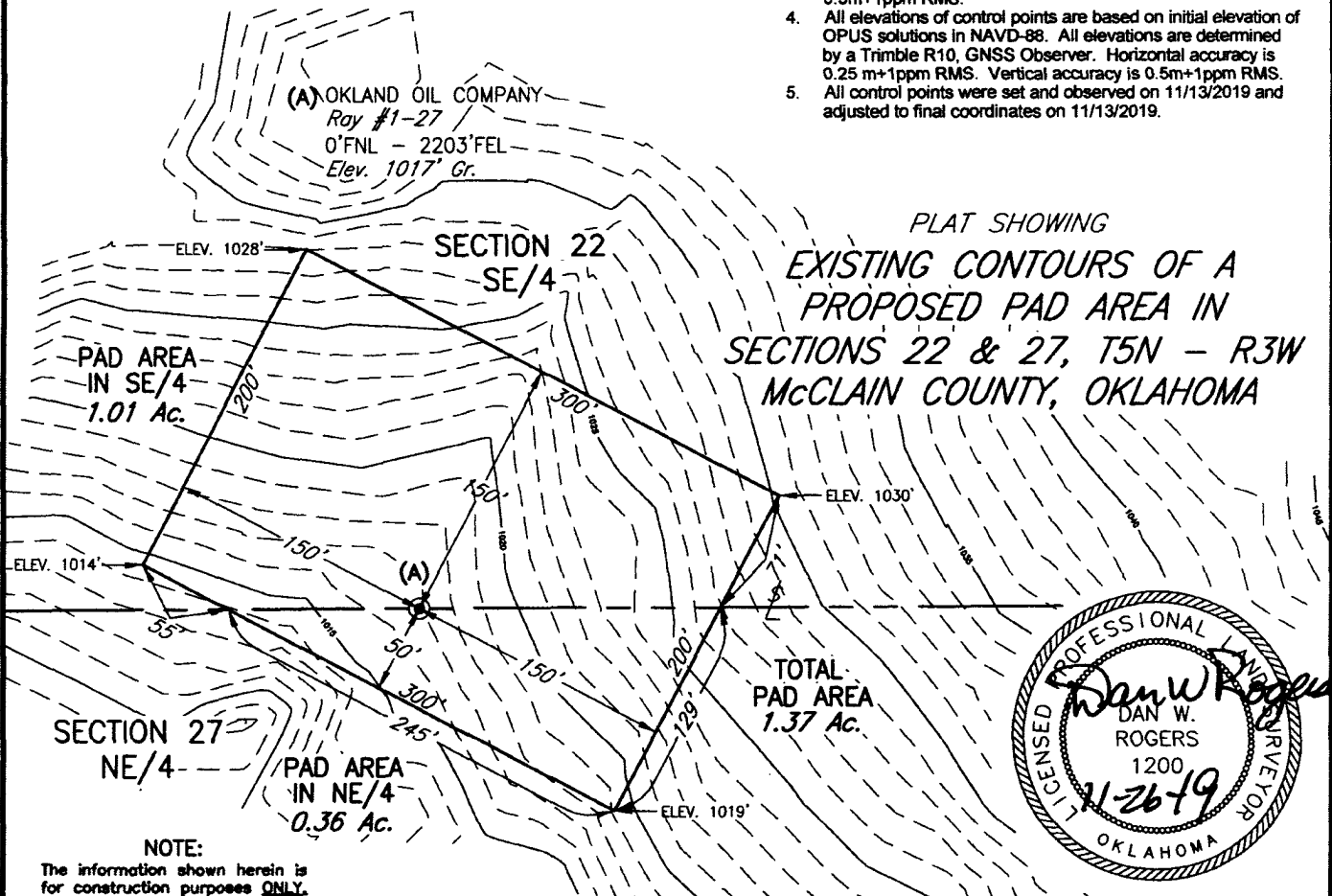


Topographic Survey Certification
I, Dan W. Rogers, certify that this project was completed under my direct and responsible charge from an actual survey made under my supervision and that this ground survey was performed at the 95 percent confidence level to meet Federal Geographic Data Committee Standards; that this survey was performed to meet the Specifications for Topographic and Planimetric Mapping contained in the Oklahoma Minimum Standards for the Practice of Land Surveying as adopted by the Oklahoma State Board of Licensure for Professional Engineers and Land Surveyors. The original data was obtained on 11/13/2019; the survey was completed on 11/13/2019; the contours shown as even feet may not meet the stated standard; all coordinates are based on Oklahoma North Zone, NAD-83, adjusted to an OPUS solution(s), and all elevations are based on NAVD-88 Datum.

CONTROL SURVEY CERTIFICATION
I, Dan W. Rogers, certify that this horizontal/vertical control survey was completed under my direct and responsible charge from an actual survey made under my supervision and meets the Oklahoma Minimum Standards for the Practice of Land Surveying as adopted by the Oklahoma State Board of Licensure for Professional Engineers and Land Surveyors.

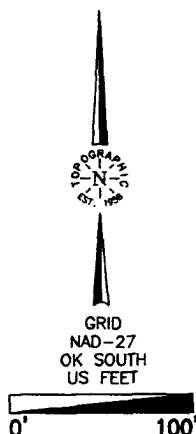
Control Notes:

1. All horizontal coordinate values are shown in U.S. Survey feet and all vertical elevation values are shown in feet.
2. All control points are based on initial control. Control Point(s) was (were) used as the basis of horizontal and vertical control. Control Point(s) to be used as the basis of bearing.
3. All bearings are based on State Plane Coordinates, Oklahoma North Line established by OPUS solution(s). Distances shown are Grid Distances. All field measurements and angles applied to control points were made with a Trimble R10, GNSS Observer. Horizontal accuracy is 0.25 m+1ppm RMS. Vertical accuracy is 0.5m+1ppm RMS.
4. All elevations of control points are based on initial elevation of OPUS solutions in NAVD-88. All elevations are determined by a Trimble R10, GNSS Observer. Horizontal accuracy is 0.25 m+1ppm RMS. Vertical accuracy is 0.5m+1ppm RMS.
5. All control points were set and observed on 11/13/2019 and adjusted to final coordinates on 11/13/2019.



This plat was prepared exclusively for				SCALE: 1" = 100'	
OKLAND OIL COMPANY				DATE: 11-15-19	
and may not be relied upon by any other entity without the written consent of Topographic Land Surveyors of Oklahoma				INVOICE NO.: 131518	
SURVEYING AND MAPPING BY				FILE NAME: RAY 1-27-SH. 2	
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA				DWG NO.: RAY 1-27 PAD.DWG	
13800 Wireless Way, Okla. City, OK. 73134 (405) 843-4847				SHEET 2 OF 3	
Certificate of Authorization No. 1293 LS					
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NO.	REVISION	DATE	BY		
SUR. BY:	RD	11-13-19			
DRAWN BY:	RKM				
APPROVED BY:	DWR				

T 5 N - R 3 W (INDIAN MERIDIAN)



PAD REPORT

TOP OF PAD ELEVATION: 1021.0250
CUT SLOPE: 33.33% 3,000:1 18.43'
FILL SLOPE: 33.33% 3,000:1 18.43'
BALANCE TOLERANCE (C.Y.): 0.00
CUT SWELL FACTOR: 1.00
FILL SHRINK FACTOR: 1.00

PAD EARTHWORK VOLUMES

CUT : 115,433.1 C.F., 4,275.30 C.Y.
FILL: 115,433.1 C.F., 4,275.30 C.Y.
AREA: 78609.1 SQ.FT., 1.805 ACRES

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CONTROL SURVEY CERTIFICATION

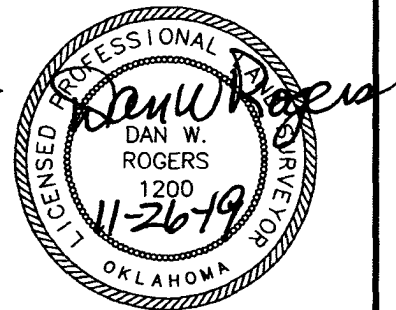
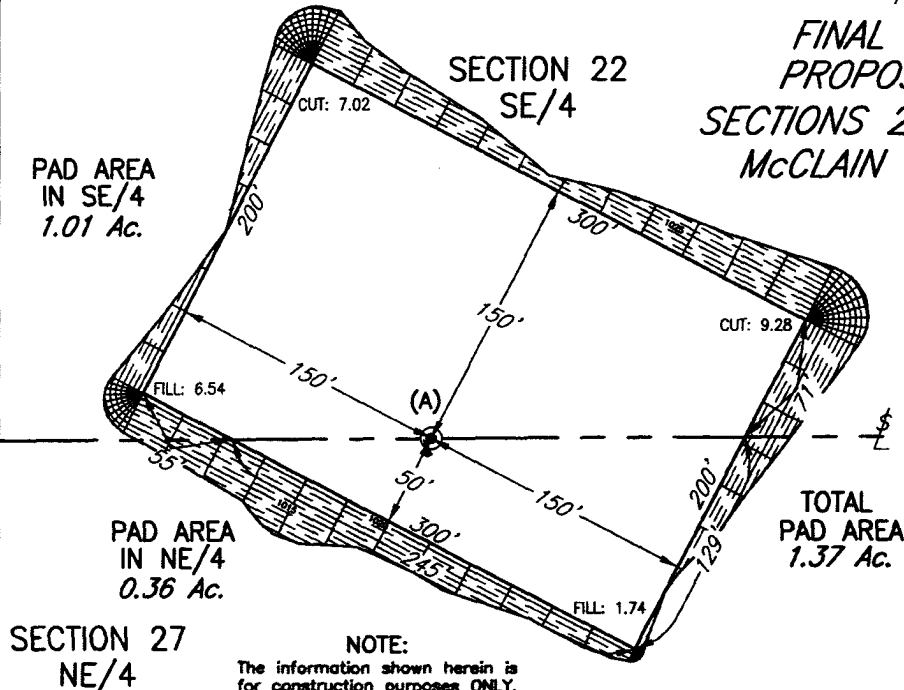
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(A) OKLAND OIL COMPANY
Ray #1-27
O'FNL - 2203'FEL
Elev. 1017' Gr.

PLAT SHOWING FINAL CONTOURS OF A PROPOSED PAD AREA IN SECTIONS 22 & 27, T5N - R3W McCLAIN COUNTY, OKLAHOMA



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for construction purposes ONLY.

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1	LOCATION	11-25-19	KH	DATE:	11-15-19
NO.	REVISION	DATE	BY	INVOICE NO.:	131518
SUR. BY:	RD 11-13-19			FILE NAME:	RAY 1-27-SH. 3
DRAWN BY:	RKM			DWG NO.:	RAY 1-27 PAD.DWG
APPROVED BY:	DWR			SHEET 3	OF 3
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA 13800 Wireless Way, Okla. City, OK. 73134 (405) 843-4847 Certificate of Authorization No. 1293 LS					