

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

API NUMBER: 045 23798

Approval Date: 05/16/2019

Expiration Date: 11/16/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 06 Twp: 16N Rge: 22W

County: ELLIS

SPOT LOCATION: ☐ NW ☐ SE ☐ SW ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 360 937

Lease Name: ODBC 7-16-22

Well No: 1H

Well will be 360 feet from nearest unit or lease boundary.

Operator KAISER-FRANCIS OIL COMPANY
Name:

Telephone: 9184940000

OTC/OCC Number: 6390 0

KAISER-FRANCIS OIL COMPANY
6733 S YALE AVE
TULSA, OK 74121-1468

OK DEPT. OF WILDLIFE CONSERVATION
P.O. BOX 53465
2300 NORTH LINCOLN BOULEVARD
OKLAHOMA CITY OK 73152

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

Name	Depth	Name	Depth
1 TONKAWA	8367	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 61723
66170

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201902226
201902225

Special Orders:

Total Depth: 13359

Ground Elevation: 2147

Surface Casing: 750

Depth to base of Treatable Water-Bearing FM: 500

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: 35000 Average: 5000

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: OGALLALA

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

PERMIT NO: 19-36629

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 BED AQUIFER

Pit Location Formation: OGALLALA

HORIZONTAL HOLE 1

Sec 07 Twp 16N Rge 22W County ELLIS

Spot Location of End Point: C S2 SW SW

Feet From: SOUTH 1/4 Section Line: 330

Feet From: WEST 1/4 Section Line: 660

Depth of Deviation: 8111

Radius of Turn: 400

Direction: 187

Total Length: 4620

Measured Total Depth: 13359

True Vertical Depth: 8408

End Point Location from Lease,
Unit, or Property Line: 330

Notes:

Category

Description

HYDRAULIC FRACTURING

5/10/2019 - 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

5/10/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201902225

5/16/2019 - GB1 - 7-16N-22W
X61723/66170 TNKW
1 WELL
NO OP. NAMED
REC. 5/7/2019 (JOHNSON)

PENDING CD - 201902226

5/16/2019 - GB1 - (I.O.) 7-16N-22W
X61723/66170 TNKW
COMPL. INT. NCT 330' FNL, NCT 330' FSL, NCT 660' FWL
NO OP. NAMED
REC. 5/7/2019 (JOHNSON)

This permit does not address the right of entry or settlement of surface damages.

045 23798 ODWC 7-16-22 1H

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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.

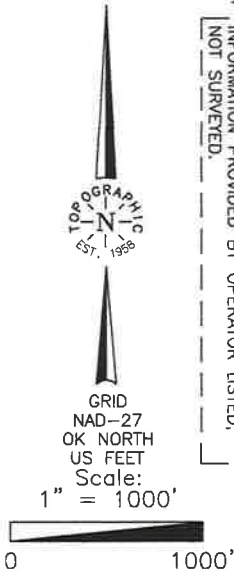
Category	Description
SPACING - 61723	5/16/2019 - GB1 - (640) 7-16N-22W EXT 61184 TNKW
SPACING - 66170	5/16/2019 - GB1 - (640) 7-16N-22W EXT 61184/61723/VAR/65653 & 63358/VAR/65421 TNKW

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

ELLIS County, Oklahoma

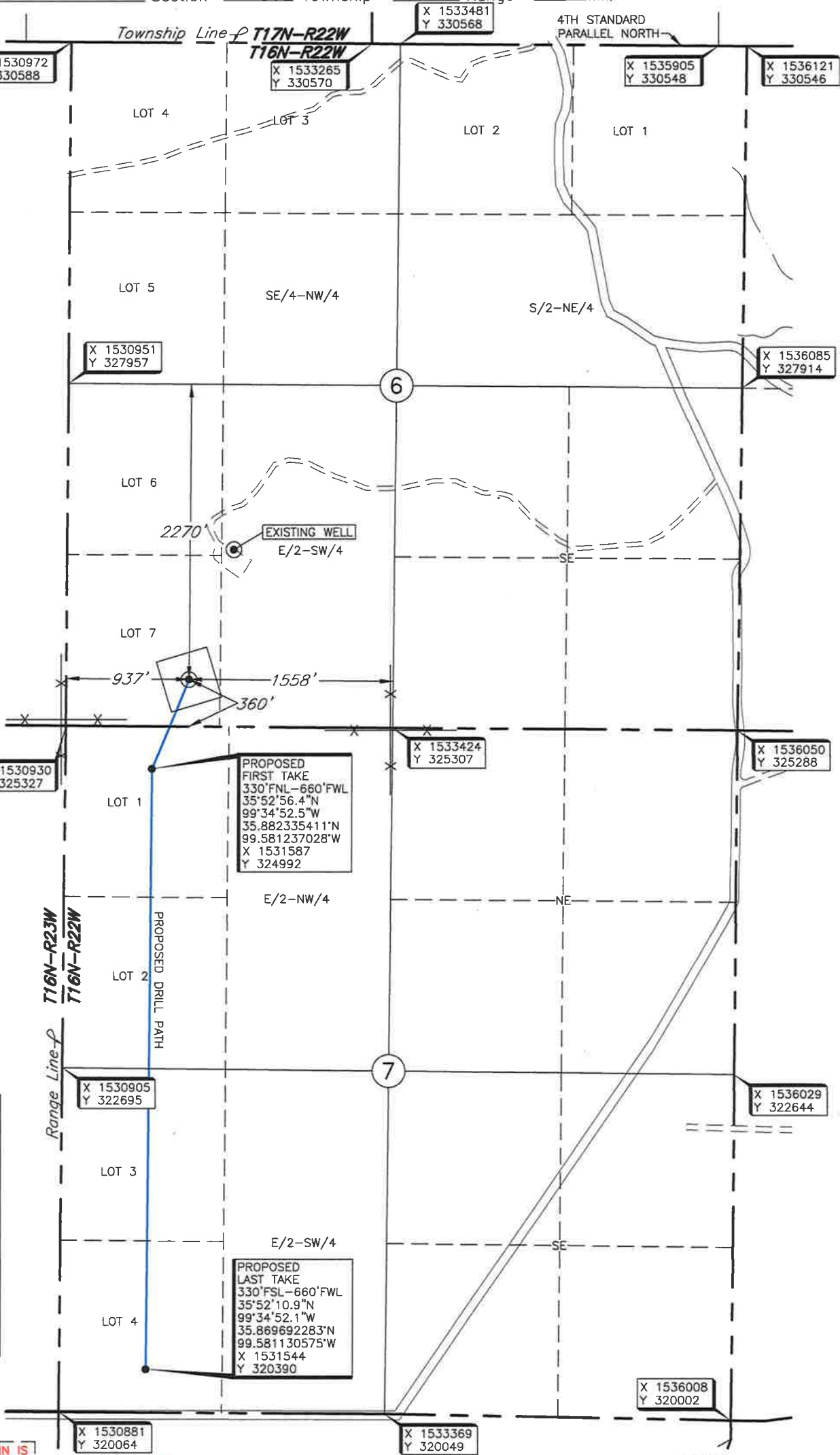
360'FSL - 937'FWL Section 6 Township 16N Range 22W I.M.



Operator: KAISER-FRANCIS OIL COMPANY
Lease Name: ODBC 7-16-22
Topography & Vegetation Location fell in slope grass pasture.
Good Drill Site? Yes
Reference Stakes Set None
Best Accessibility to Location From North off lease road.
Distance & Direction From the Jct. of U.S. Hwy. 60 & U.S. Hwy 283, East of Arnett, Oklahoma, go South ±16 miles, then East ±6.0 miles, then North ±2.0 miles, then East ±3.0 miles, then South ±2 miles, the West through Section 6 ±1.0 mile to the Southwest corner of Section 6 T16N-R22W.
Well No.: 1H
ELEVATION: 2147' Gr. at Stake

THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY

DATUM: NAD-27
LAT: 35°53'03.3"N
LONG: 99°34'49.1"W
LAT: 35.884238232°N
LONG: 99.580319067°W
STATE PLANE COORDINATES (US FEET):
ZONE: OK NORTH
X: 1531870
Y: 325680

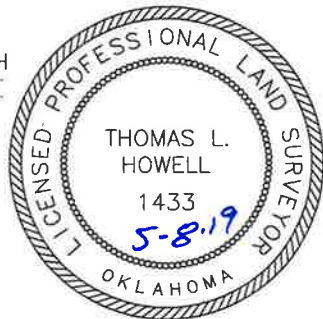


Revision ☒ B Date of Drawing: May 8, 2019
Project # 126034 Date Staked: Apr. 29, 2019 KH

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



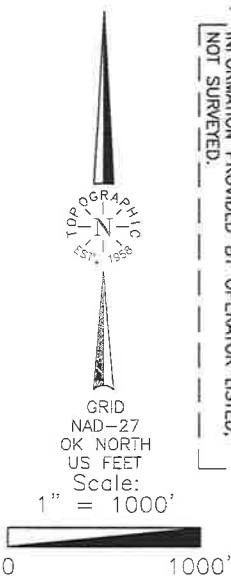
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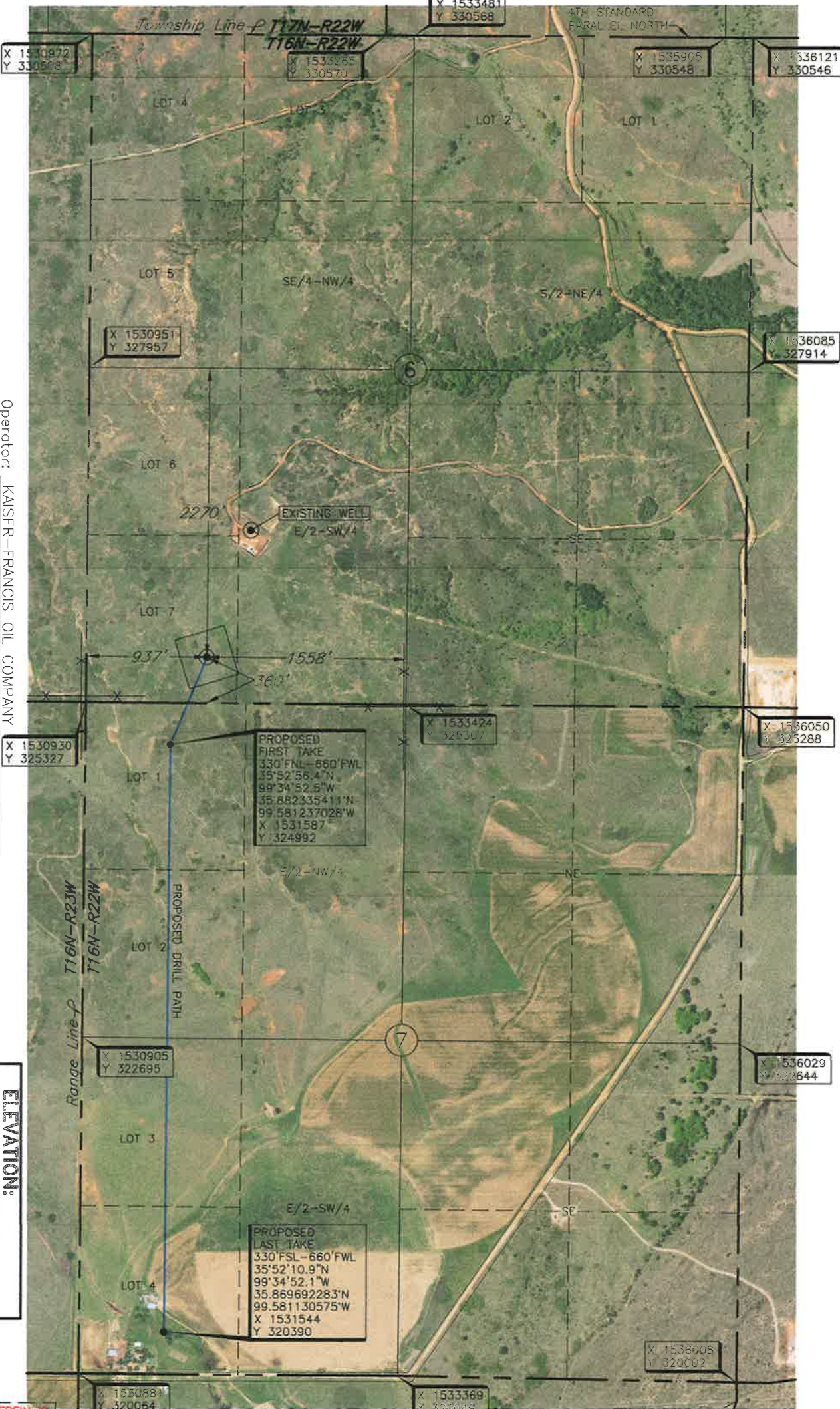
ELLIS

County, Oklahoma

360'FSL - 937'FWL Section 6 Township 16N Range 22W I.M.



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



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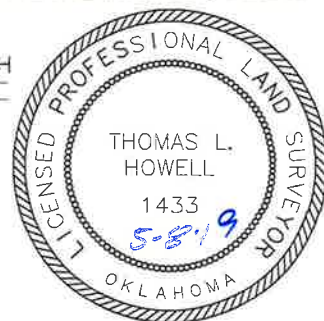
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KH

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LAT: 35.884238232"N
LONG: 99.580319067"W
STATE PLANE
COORDINATES (US FEET):
ZONE: OK NORTH
X: 1531870
Y: 325680

This information was gathered with a GPS receiver with a 1 ft accuracy.

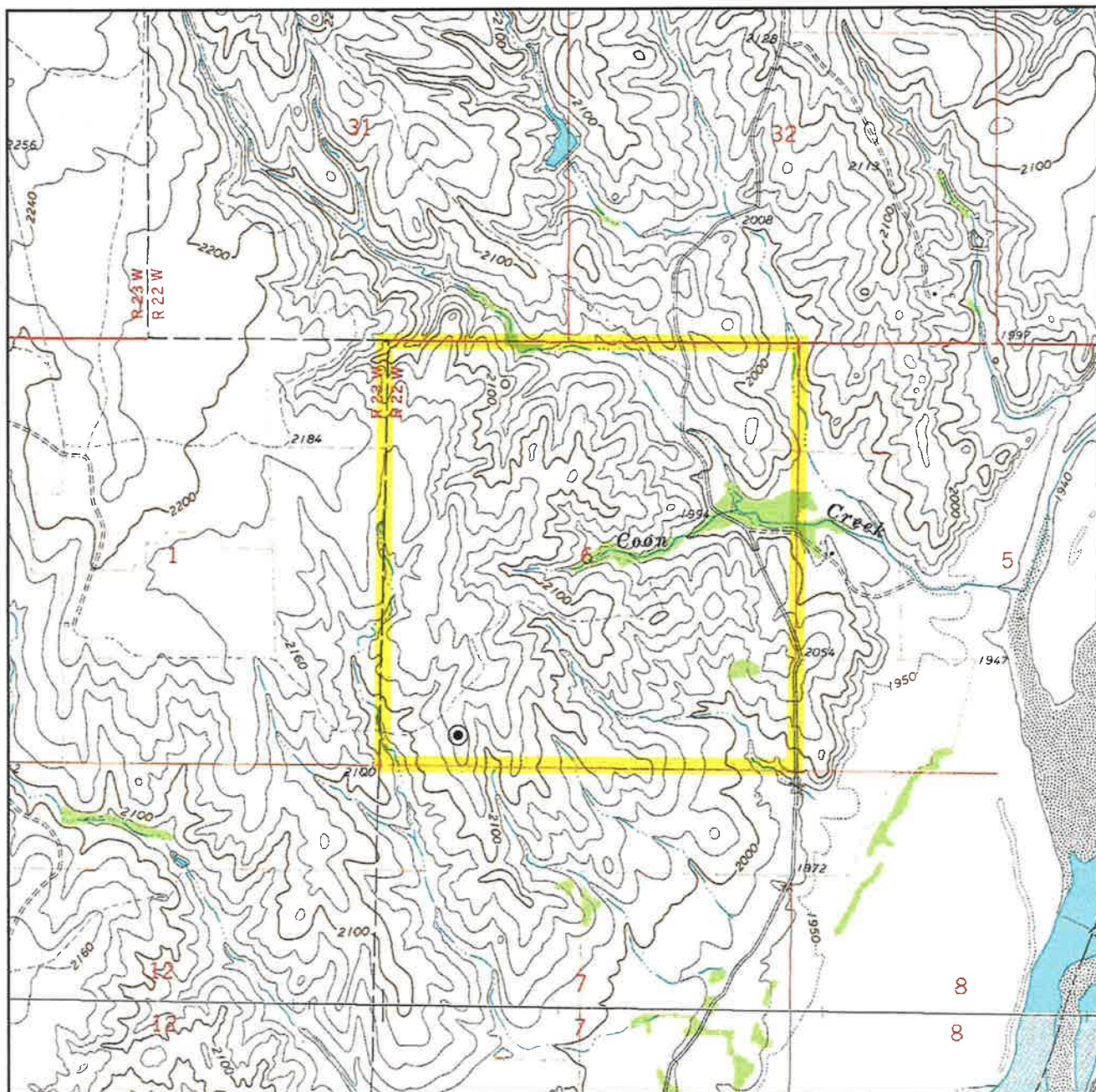
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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

LOCATION & ELEVATION VERIFICATION MAP



Sec. 6 Twp. 16N Rng. 22W I.M.

County ELLIS State OK

Operator KAISER-FRANCIS OIL COMPANY

Description 360' FSL - 937' FWL

Lease ODWC 7-16-22 #1H

Elevation 2147' Gr. at Stake

Above Background Data from
U.S.G.S. Topographic Map

Scale: 1"=2000'

Contour Interval 20'

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.



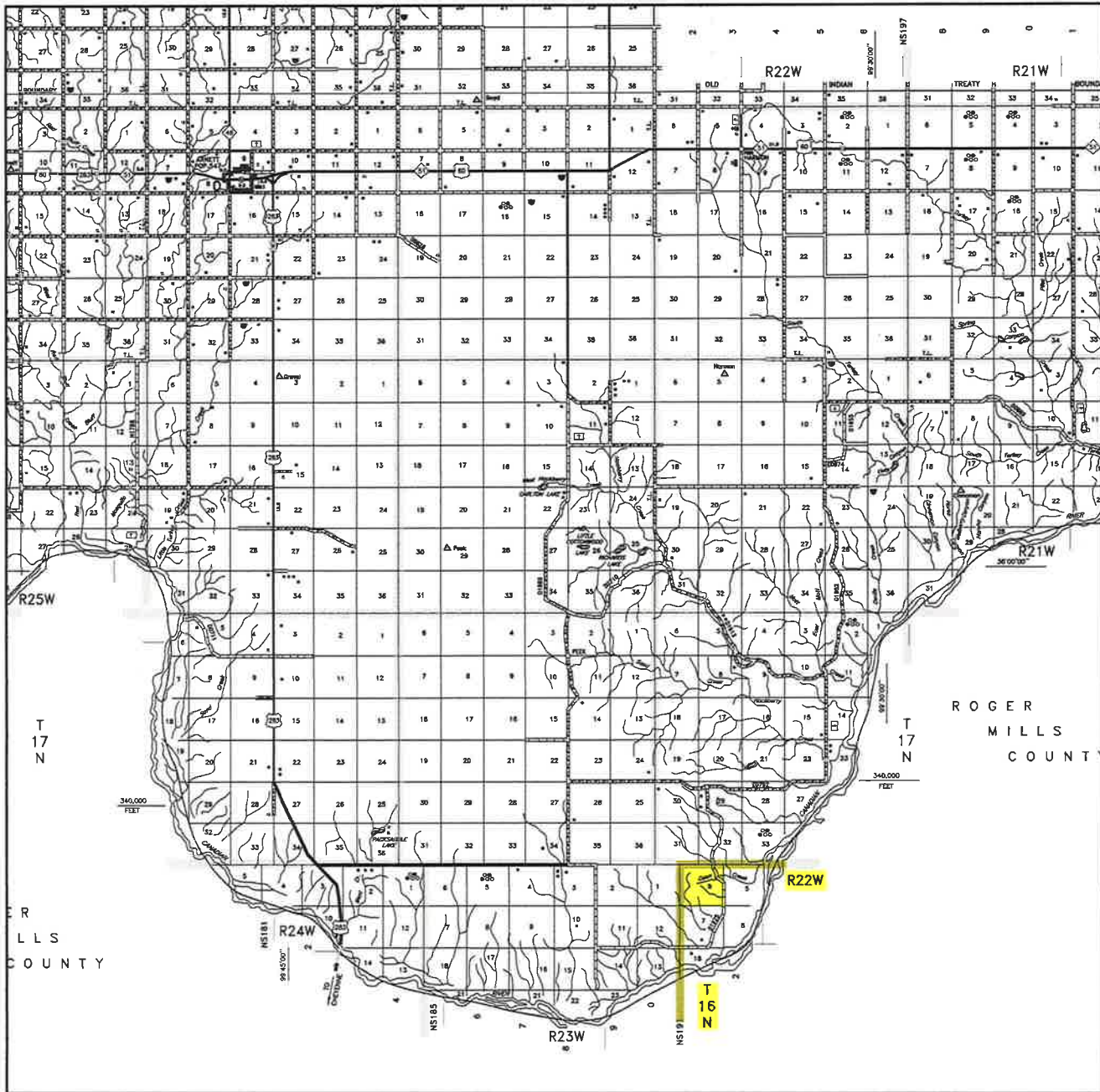
LAND SURVEYORS OF OKLAHOMA

Apr. 29, 2019

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VICINITY MAP



Scale: 1" = 3 Miles

Sec. 6 Twp. 16N Rng. 22W I.M.

County ELLIS State OK

Operator KAISER-FRANCIS OIL COMPANY



LAND SURVEYORS OF OKLAHOMA

