

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

API NUMBER: 011 23983

Approval Date: 04/16/2018

Expiration Date: 10/16/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 04 Twp: 15N Rge: 10W County: BLAINE
SPOT LOCATION: ☐ NE ☐ NE ☐ NW ☐ NW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 250 1290

Lease Name: DOPPELGANGER 4_9-15N-10W Well No: 2HX Well will be 250 feet from nearest unit or lease boundary.
Operator Name: DEVON ENERGY PRODUCTION CO LP Telephone: 4052353611; 4052353 OTC/OCC Number: 20751 0

DEVON ENERGY PRODUCTION CO LP
333 W SHERIDAN AVE
OKLAHOMA CITY, OK 73102-5015

LOOSEN FAMILY LIMITED PARTNERSHIP
P. O. BOX 1337
OKLAHOMA CITY OK 73101-

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN (EX CHESTER)	10193	6	
2	WOODFORD	10818	7	
3			8	
4			9	
5			10	

Spacing Orders: 658264
658265

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201801338
201801337
201801336
201801335

Special Orders:

Total Depth: 20479 Ground Elevation: 1316 Surface Casing: 1999 Depth to base of Treatable Water-Bearing FM: 40

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: 8000 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 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: FLOWERPOT

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-34238
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 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: FLOWERPOT

HORIZONTAL HOLE 1

Sec 09 Twp 15N Rge 10W County BLAINE

Spot Location of End Point: SW SE SW SW

Feet From: SOUTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 945

Depth of Deviation: 9501

Radius of Turn: 477

Direction: 185

Total Length: 10229

Measured Total Depth: 20479

True Vertical Depth: 10818

End Point Location from Lease,
Unit, or Property Line: 50

Notes:

Category

Description

DEEP SURFACE CASING

4/4/2018 - 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

4/4/2018 - 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

INTERMEDIATE CASING

4/4/2018 - G71 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE MORROW SERIES

MEMO

4/4/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

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.

011 23983 DOPPELGANGER 4_9-15N-10W
2HX

Category	Description
PENDING CD – 201801335	4/10/2018 - G58 - 4-15N-10W X658265 MSNLC, WDFD 10 WELLS NO OP. NAMED REC 4/3/2018 (MINMIER)
PENDING CD – 201801336	4/10/2018 - G58 - 9-15N-10W X658264 MSNLC, WDFD 10 WELLS NO OP. NAMED REC 4/3/2018 (MINMIER)
PENDING CD – 201801337	4/10/2018 - G58 - (I.O.) 4 & 9-15N-10W EST MULTIUNIT HORIZONTAL WELL X658265 MSNLC, WDFD (4-15N-10W) X658264 MSNLC, WDFD (9-15N-10W) 50% 4-15N-10W 50% 9-15N-10W NO OP. NAMED REC 4/3/2018 (MINMIER)
PENDING CD – 201801338	4/10/2018 - G58 - (I.O.) 4 & 9-15N-10W X658265 MSNLC, WDFD (4-15N-10W) X658264 MSNLC, WDFD (9-15N-10W) X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO PROPOSED WELL COMPL. INT (4-15N-10W) NCT 0' FNL, NCT 0' FSL, NCT 330' FWL COMPL. INT (9-15N-10W) NCT 0' FNL, NCT 165' FSL, NCT 330' FWL NO OP. NAMED REC 4/3/2018 (MINMIER)
SPACING – 658264	4/10/2018 - G58 - (640)(HOR) 9-15N-10W EST MSNLC EXT 643729 WDFD POE TO BHL (MSNLC) NCT 660' FB POE TO BHL (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL
SPACING – 658265	4/10/2018 - G58 - (640)(HOR) 4-15N-10W EXT 644506 MSNLC, WDFD POE TO BHL (MSNLC) NCT 660' FB POE TO BHL (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL

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.

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TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

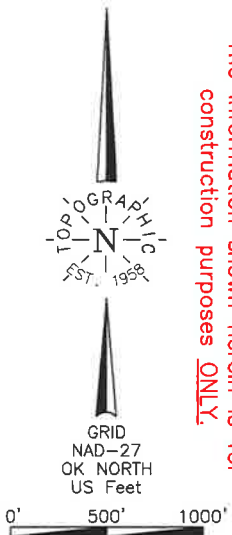
13800 WIRELESS WAY, OKLA. CITY, OKLA. 73134 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
Certificate of Authorization No. 1293 LS

BLAINE

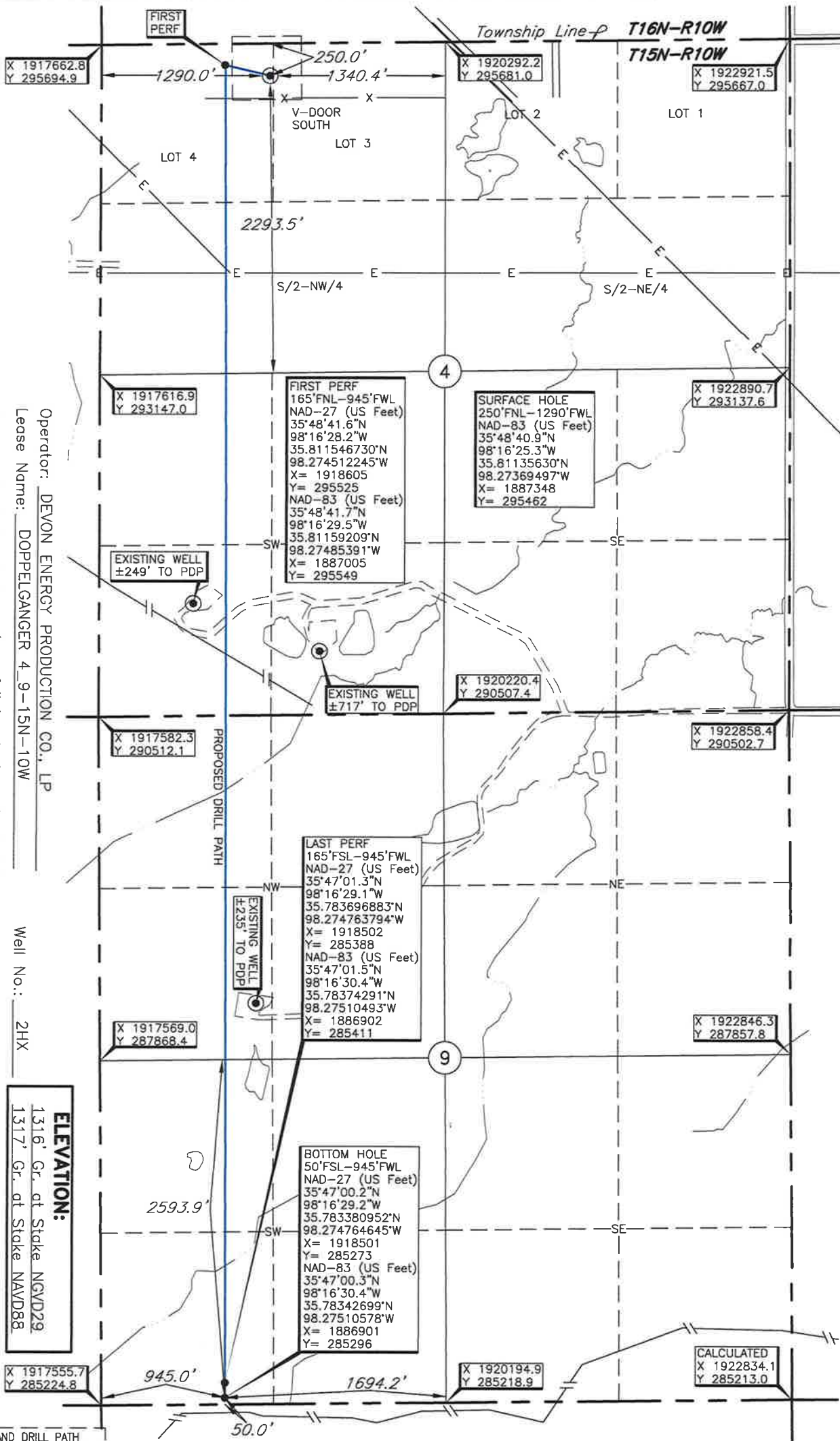
County, Oklahoma

011-23983

250'FNL-1290'FWL Section 4 Township 15N Range 10W I.M.



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



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

DATUM: NAD-27
LAT: 35°48'40.7"N
LONG: 98°16'24.1"W
LAT: 35.811311056°N
LONG: 98.273353314°W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1918948
Y: 295438

Date of Drawing: Feb. 28, 2018
Invoice # 288616B Date Staked: Feb. 26, 2018 TR

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

Signature: Dan W. Rogers
Oklahoma Lic. No. 1200



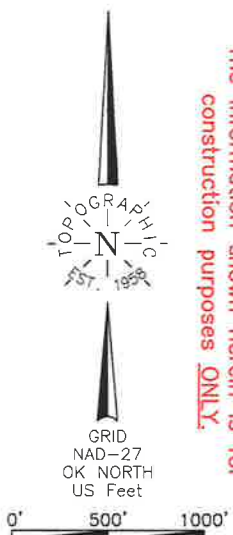
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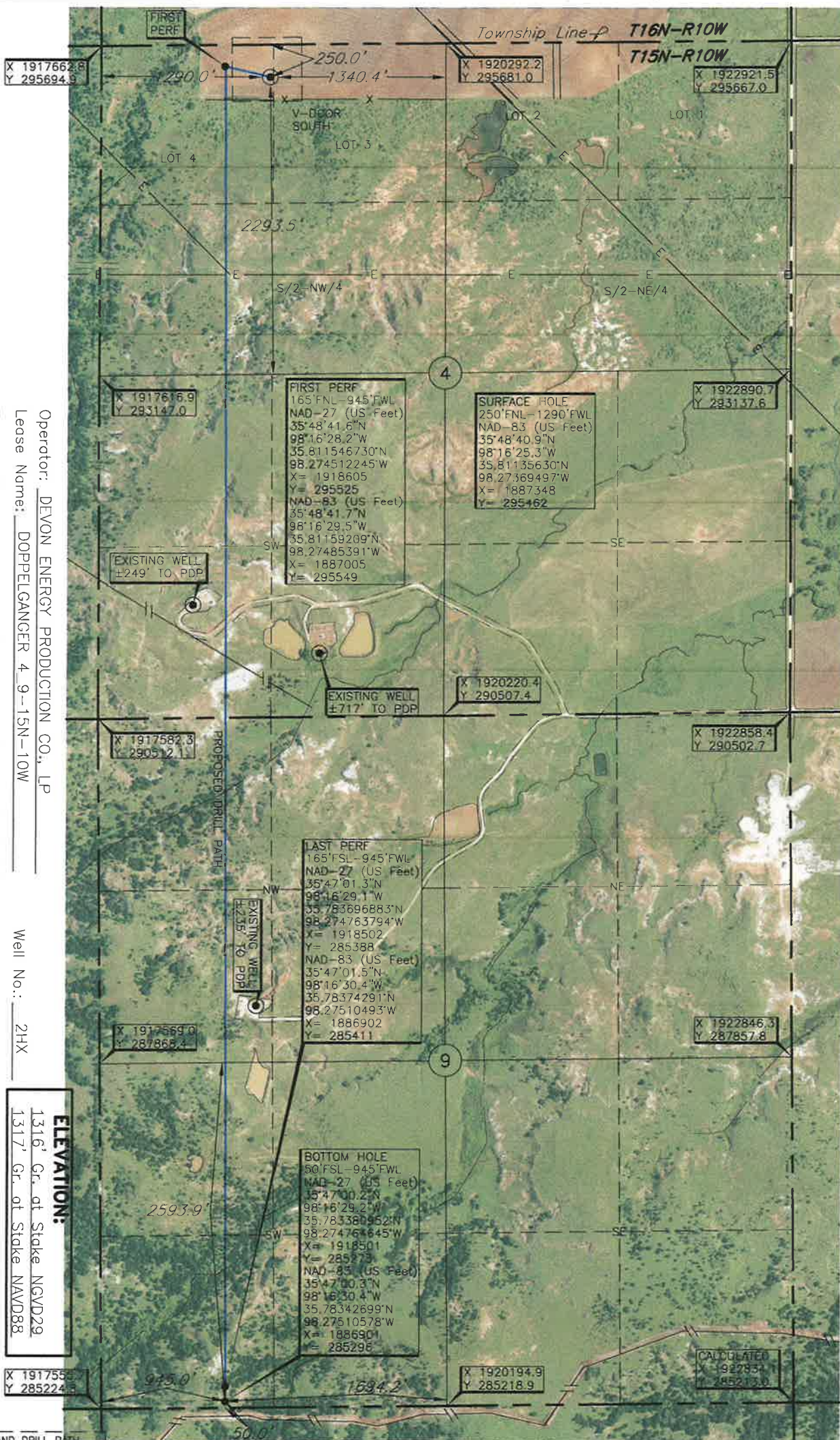
BLAINE

County, Oklahoma

250'FNL-1290'FWL Section 4 Township 15N Range 10W I.M.



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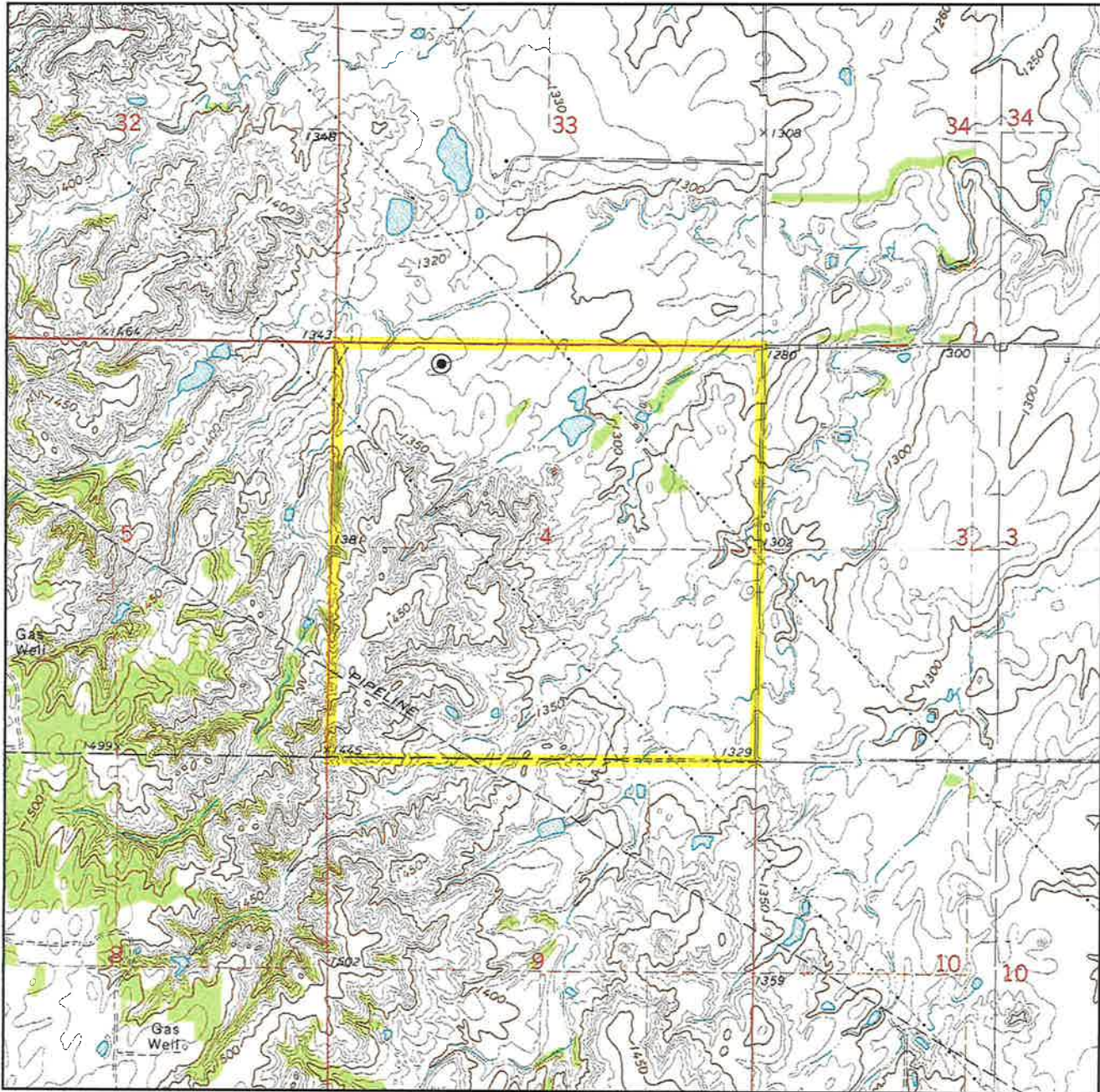
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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

LOCATION & ELEVATION VERIFICATION MAP



Sec. 4 Twp. 15N Rng. 10W IM

County BLAINE State OK

Operator DEVON ENERGY PRODUCTION CO., LP

Description 250' FNL-1290' FWL

Lease DOPPELGANGER 4_9-15N-10W 2HX

Elevation 1316' Gr. at Stake NGVD29
1317' Gr. at Stake NAVD88

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.



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

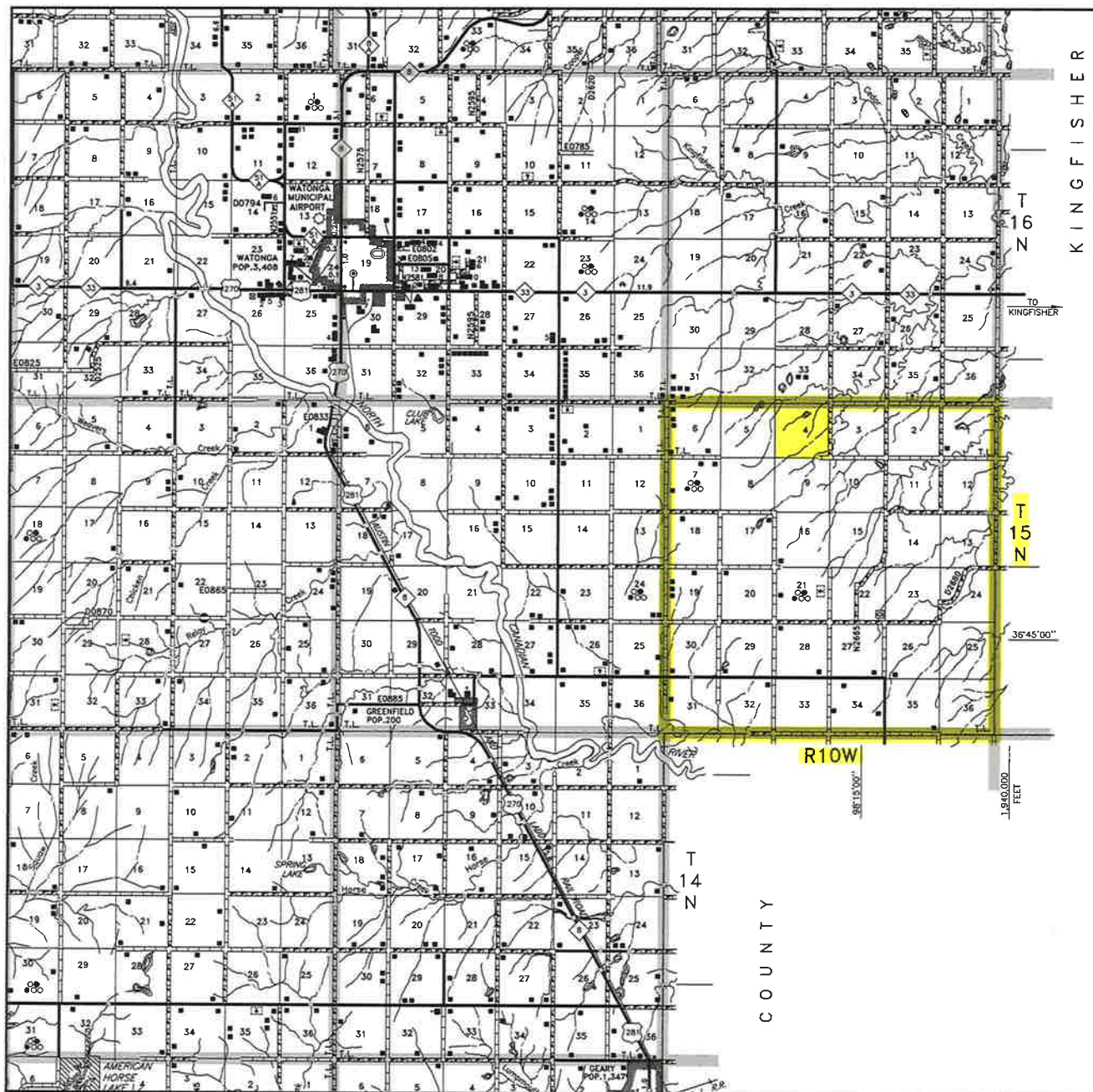
LAND SURVEYORS OF OKLAHOMA

Feb. 26, 2018

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Surveying and Mapping for the Energy Industry
13800 Wireless Way, Oklahoma City, OK 73134 www.topographic.com
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VICINITY MAP



Scale: 1" = 3 Miles

Sec. 4 Twp. 15N Rng. 10W IM

County BLAINE State OK

Operator DEVON ENERGY PRODUCTION CO., LP



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

LAND SURVEYORS OF OKLAHOMA

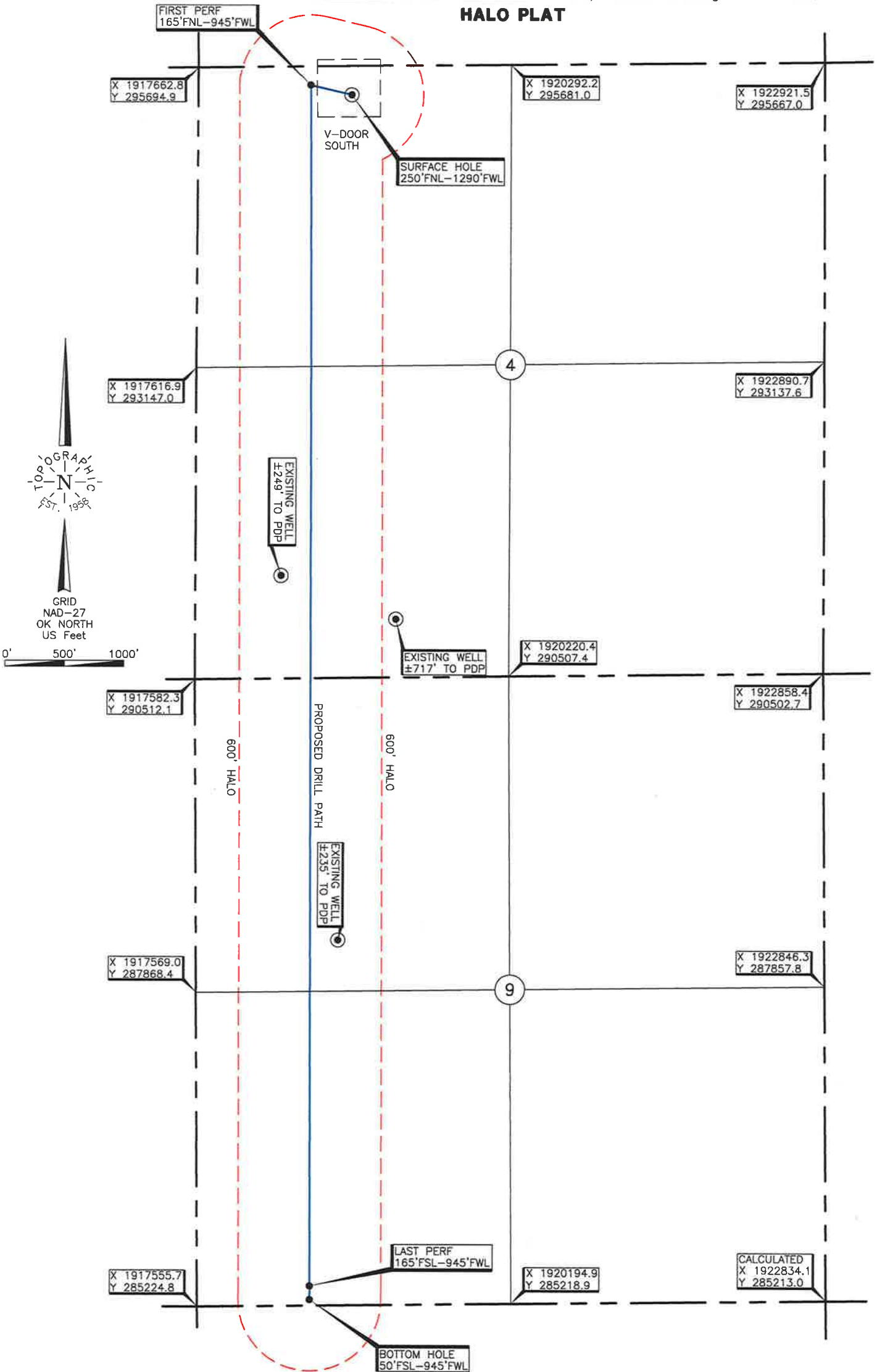
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13800 WIRELESS WAY, OKLA. CITY, OKLA. 73134 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
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BLAINE County, Oklahoma

250'FNL-1290'FWL Section 4 Township 15N Range 10W I.M.

HALO PLAT

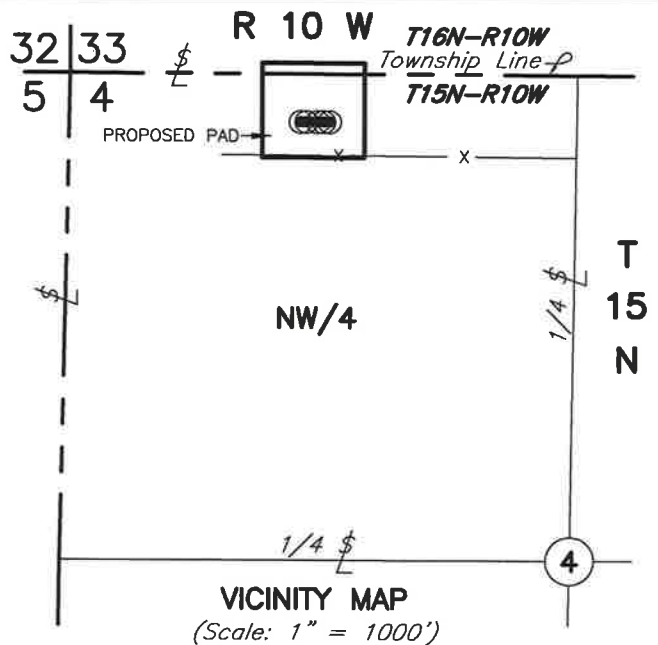


FIRST PERF, LAST PERF, BOTTOM HOLE, AND DRILL PATH
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T 15 N - R 10 W
(INDIAN MERIDIAN)

PLAT SHOWING
PROPOSED PAD AREA IN THE
NW/4 OF SECTION 4, T15N - R10W &
SW/4 OF SECTION 33, T16N - R10W
BLAINE COUNTY, OKLAHOMA



(A) DEVON ENERGY
PRODUCTION CO., LP
KRAKEN 33_28-16N-10W 2HX
250'FNL-1200'FWL
Elev. 1318' Gr.

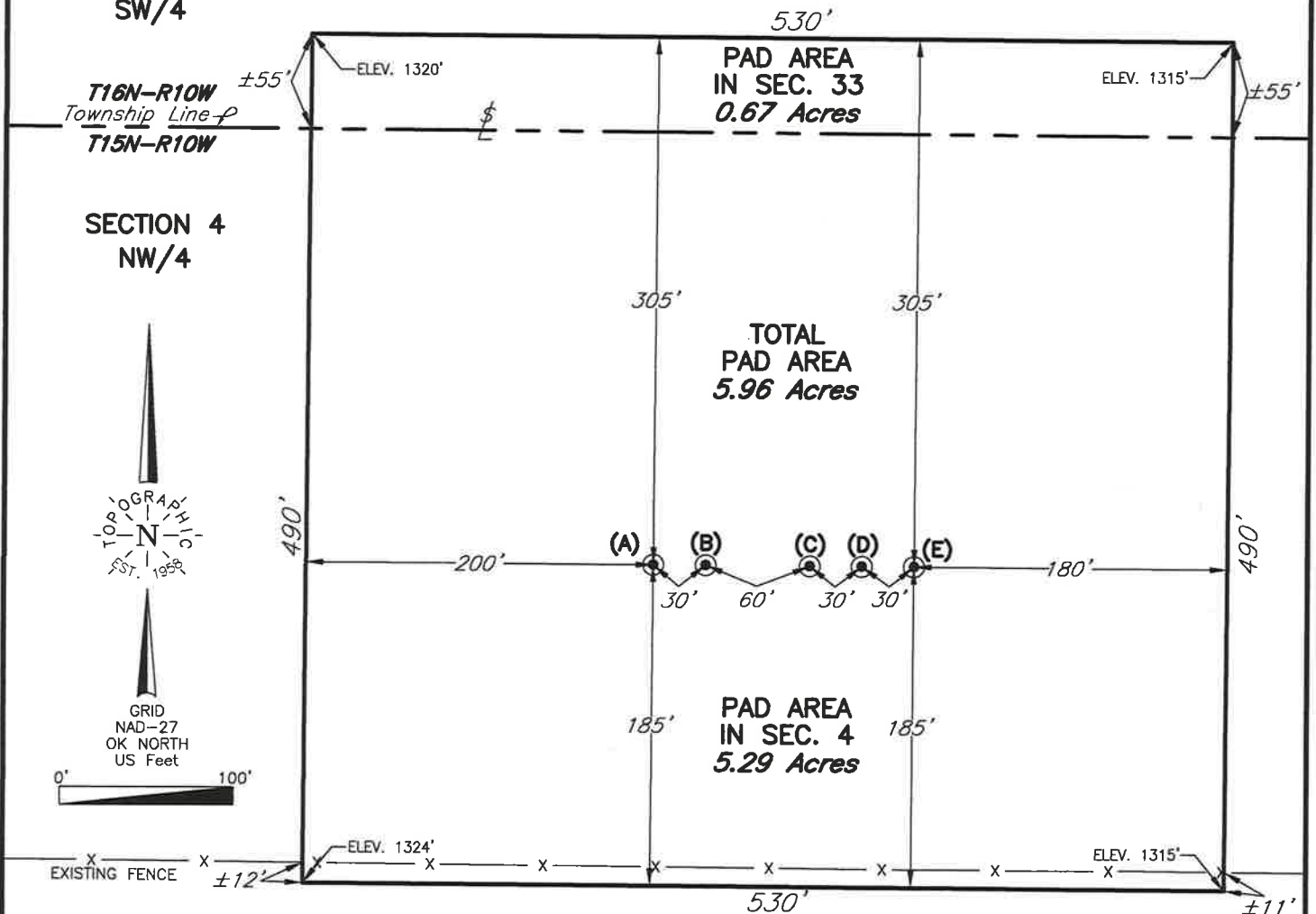
(B) DEVON ENERGY
PRODUCTION CO., LP
KRAKEN 33_28-16N-10W 3HX
250'FNL-1230'FWL
Elev. 1318' Gr.

(C) DEVON ENERGY
PRODUCTION CO., LP
DOPPELGANGER 4_9-15N-10W 2HX
250'FNL-1290'FWL
Elev. 1316' Gr.

(D) DEVON ENERGY
PRODUCTION CO., LP
DOPPELGANGER 4_9-15N-10W 3HX
250'FNL-1320'FWL
Elev. 1316' Gr.

(E) DEVON ENERGY
PRODUCTION CO., LP
DOPPELGANGER 4_9-15N-10W 4HX
250'FNL-1350'FWL
Elev. 1316' Gr.

SECTION 33
SW/4



NOTE:

The information shown herein is
for construction purposes ONLY.

				This plat was prepared exclusively for		SCALE: 1"=100'
				DEVON ENERGY PRODUCTION CO., LP		DATE: 2/28/18
				and may not be relied upon by any other entity without the written consent of Topographic Land Surveyors of Oklahoma		INVOICE NO.: 288616
				SURVEYING AND MAPPING BY		FILE NAME: L2674B.DWG
				TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA		DWG NO.: 104059-L2-674-B
				13800 Wireless Way, Okla. City, OK. 73134 (405) 843-4847		SHEET 1 OF 1
				Certificate of Authorization No. 1293 LS		
NO.	REVISION	DATE	BY			
SUR. BY:	JW	2/26/18				
DRAWN BY:	TR					
APPROVED BY:	DR					