

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

API NUMBER: 011 23989

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 ☐ NW ☐ NW ☐ NE FEET FROM QUARTER: FROM NORTH FROM EAST  
SECTION LINES: 30 1990

Lease Name: DOPPELGANGER 4\_9-15N-10W Well No: 8HX Well will be 30 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)	10108	6	
2	WOODFORD	10743	7	
3			8	
4			9	
5			10	

Spacing Orders: 658264  
658265

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201801336  
201801335  
201801349  
201801350

Special Orders:

Total Depth: 20589 Ground Elevation: 1304

**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)  
H. SEE MEMO

PERMIT NO: 18-34214

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: SE SW SE SE

Feet From: SOUTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 945

Depth of Deviation: 9598

Radius of Turn: 477

Direction: 175

Total Length: 10242

Measured Total Depth: 20589

True Vertical Depth: 10743

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

Notes:

Category

Description

DEEP SURFACE CASING

4/2/2018 - 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

4/2/2018 - 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](http://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](http://FRACFOCUS.ORG)

INTERMEDIATE CASING

4/2/2018 - 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

4/2/2018 - 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 23989 DOPPELGANGER 4\_9-15N-10W  
8HX

Category	Description
PENDING CD – 201801335	4/11/2018 - G58 - 4-15N-10W X658265 MSNLC, WDFD 10 WELLS NO OP. NAMED REC 4/3/2018 (MINMIER)
PENDING CD – 201801336	4/11/2018 - G58 - 9-15N-10W X658264 MSNLC, WDFD 10 WELLS NO OP. NAMED REC 4/3/2018 (MINMIER)
PENDING CD – 201801349	4/11/2018 - 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 – 201801350	4/11/2018 - 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' FEL COMPL. INT (9-15N-10W) NCT 0' FNL, NCT 165' FSL, NCT 330' FEL NO OP. NAMED REC 4/3/2018 (MINMIER)
SPACING – 658264	4/11/2018 - 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	4/11/2018 - 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.

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.

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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

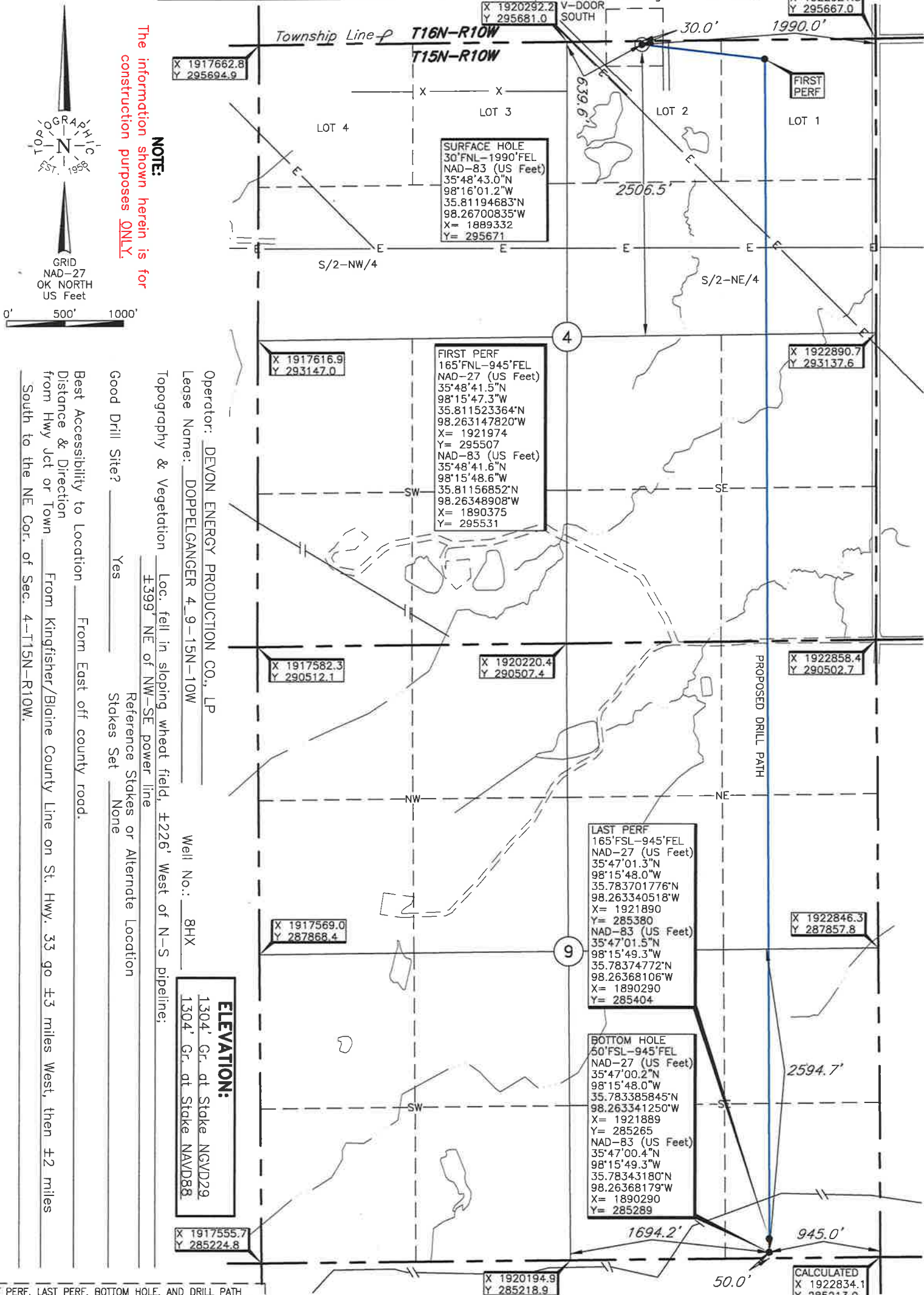
Certificate of Authorization No. 1293 LS

BLAINE

County, Oklahoma

011-23989

30'FNL-1990'FEL Section 4 Township 15N Range 10W I.M.



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

Date of Drawing: Mar. 5, 2018

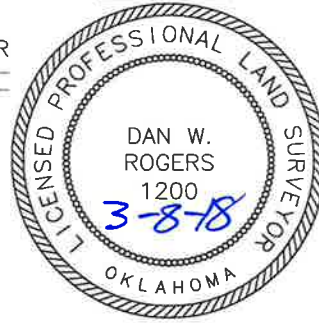
Invoice # 288613C Date Staked: Feb. 26, 2018

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

*Dan W Rogers*  
Oklahoma Lic. No. 1200



DATUM: NAD-27  
LAT: 35°48'42.8"N  
LONG: 98°16'00.0"W  
LAT: 35.811901655"N  
LONG: 98.266666958"W  
STATE PLANE  
COORDINATES: (US Feet)  
ZONE: OK NORTH  
X: 1920931  
Y: 295648



TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

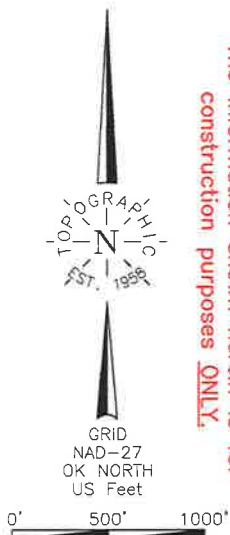
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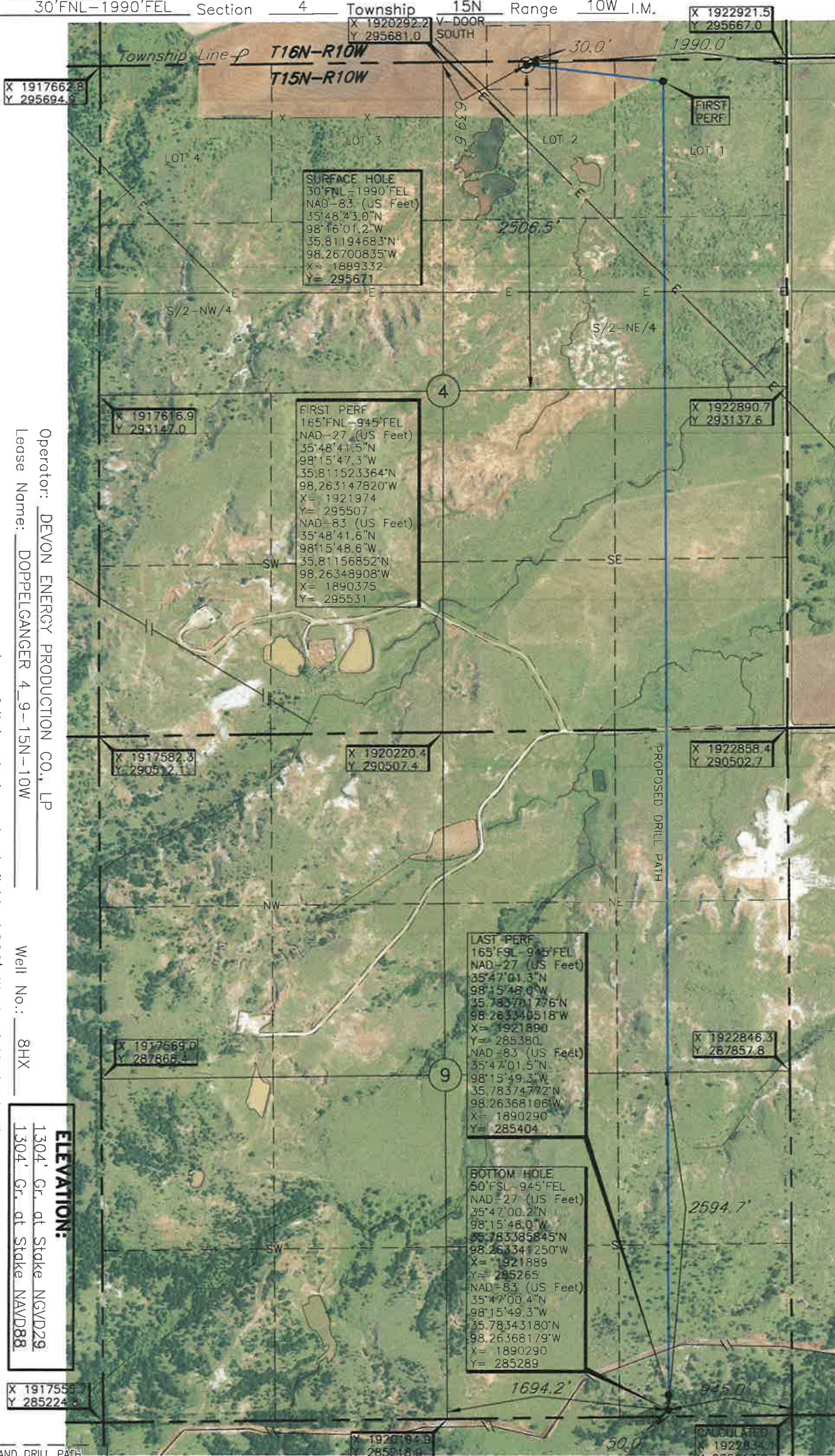
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County, Oklahoma

30'FNL-1990'FEL Section 4 Township 15N Range 10W I.M.



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



Operator: DEVON ENERGY PRODUCTION CO., LP  
Lease Name: DOPPELGANGER 4\_9-15N-10W  
Topography & Vegetation: Loc. fell in sloping wheat field, ±226' West of N-S pipeline;  
Good Drill Site? Yes  
Reference Stakes or Alternate Location: None  
Best Accessibility to Location: From East off county road.  
Distance & Direction: From Kingfisher/Blaine County Line on St. Hwy. 33 go ±3 miles West, then ±2 miles South to the NE Cor. of Sec. 4-T15N-R10W.  
Well No.: 8HX  
ELEVATION: 1304' Gr. at Stake NGVD29  
1304' Gr. at Stake NAVD88

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

Date of Drawing: Mar. 5, 2018

Invoice # 288613C Date Staked: Feb. 26, 2018

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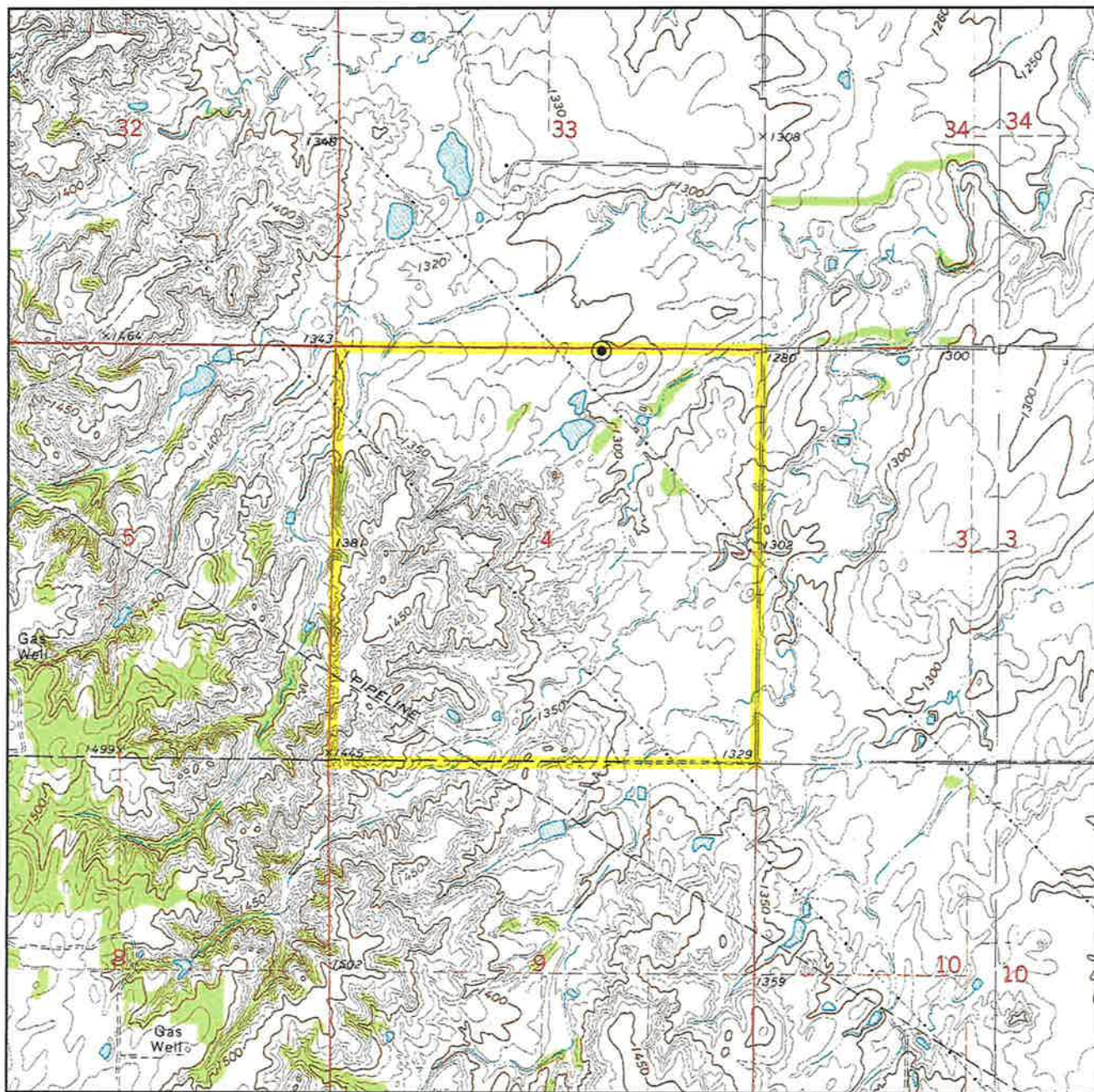
gathered with a total station and a GPS receiver with a 1 ft accuracy



# TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

Surveying and Mapping for the Energy Industry  
13800 Wireless Way, Oklahoma City, OK 73134 [www.topographic.com](http://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 30'FNL-1990'FEL

Lease DOPPELGANGER 4\_9-15N-10W 8HX

Elevation 1304' Gr. at Stake NGVD29  
1304' 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.



LAND SURVEYORS OF OKLAHOMA

Feb. 26, 2018



# TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

*Surveying and Mapping for the Energy Industry*

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## VICINITY MAP



Scale: 1" = 3 Miles

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

County BLAINE State OK

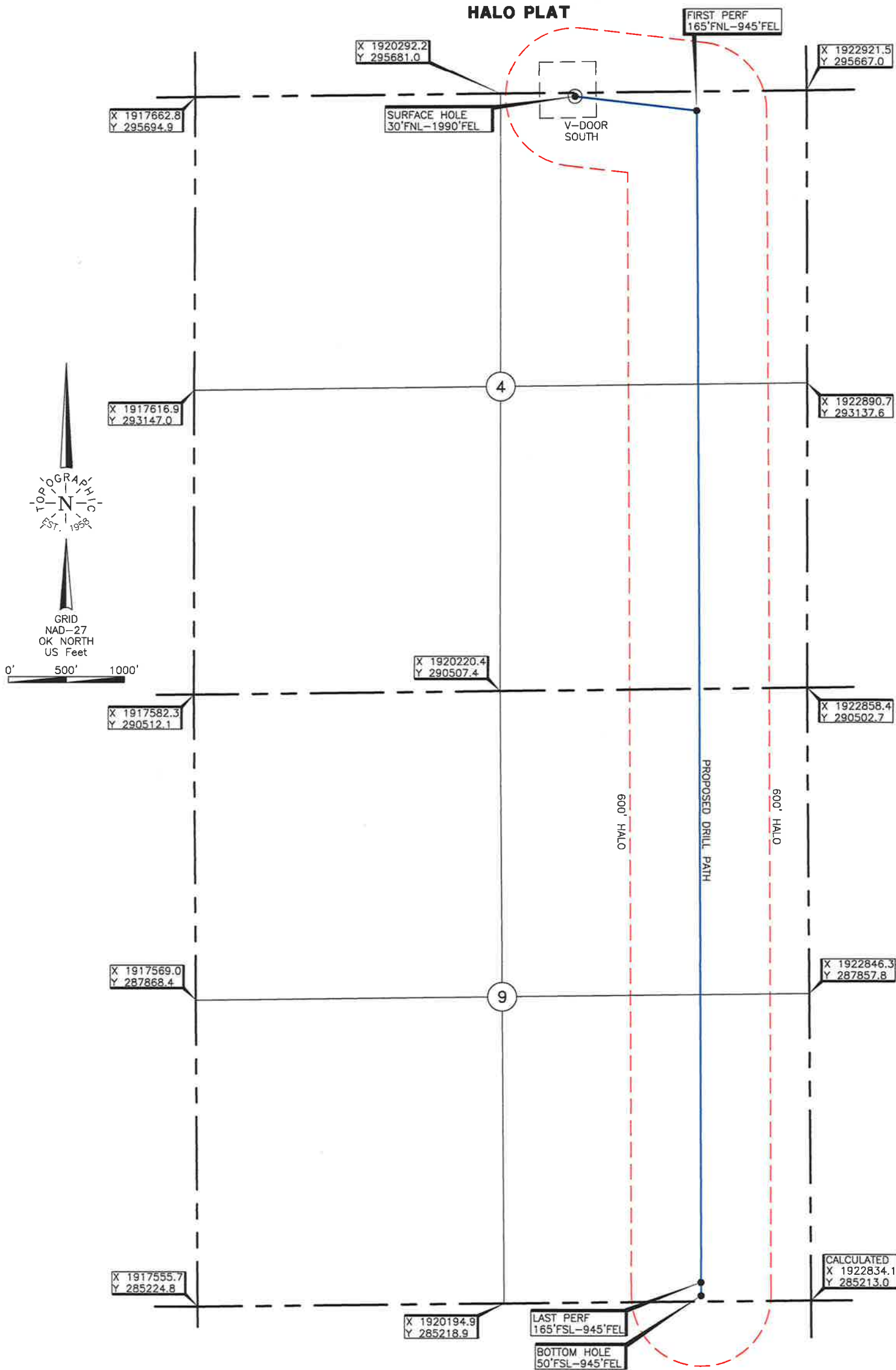
Operator DEVON ENERGY PRODUCTION CO., LP



LAND SURVEYORS OF OKLAHOMA

30'FNL-1990'FEL Section 4 Township 15N Range 10W I.M.

**HALO PLAT**



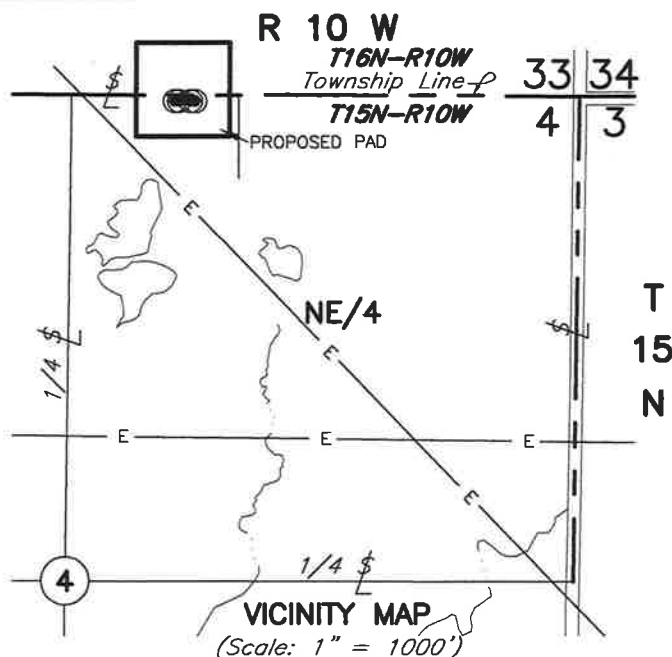
FIRST PERF, LAST PERF, BOTTOM HOLE, AND DRILL PATH  
INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED

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(INDIAN MERIDIAN)

PROPOSED PAD AREA IN THE  
NE/4 OF SECTION 4, T15N - R10W &  
SE/4 OF SECTION 33, T16N - R10W  
BLAINE COUNTY, OKLAHOMA

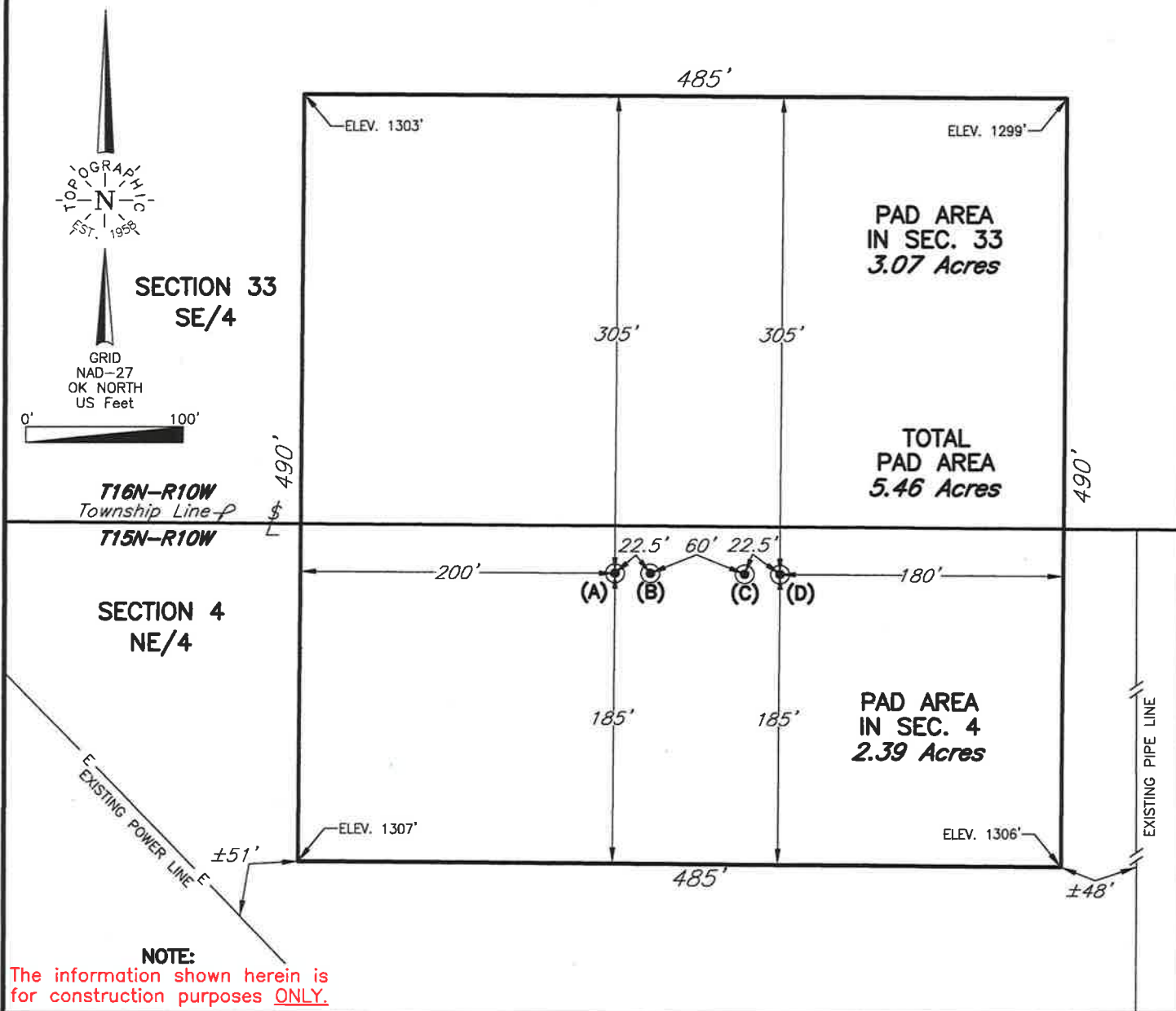


(A) DEVON ENERGY  
PRODUCTION CO., LP  
KRAKEN 33-28-16N-10W 6HX  
30'FNL-2095'FEL  
Elev. 1303' Gr.

(B) DEVON ENERGY  
PRODUCTION CO., LP  
KRAKEN 33-28-16N-10W 7HX  
30'FNL-2072.5'FEL  
Elev. 1303' Gr.

(C) DEVON ENERGY  
PRODUCTION CO., LP  
DOPPELGANGER 4.9-15N-10W 7HX  
30'FNL-2012.5'FEL  
Elev. 1,304' Gr.

(D) DEVON ENERGY  
PRODUCTION CO., LP  
DOPPELGANGER 4\_9-15N-10W 8HX  
30'FNL-1990'FEL  
Elev. 1,304' Gr.



				This plat was prepared exclusively for		SCALE: 1"=100'	
				<b>DEVON ENERGY PRODUCTION CO., LP</b>		DATE: 3/5/18	
NO.	REVISION	DATE	BY	and may not be relied upon by any other entity without the written consent of Topographic Land Surveyors of Oklahoma		INVOICE NO.: 288613	
SUR. BY: JW 2/26/18				<b>TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA</b> <i>SURVEYING AND MAPPING BY</i> 13800 Wireless Way, Okla. City, OK, 73134 (405) 843-4847 Certificate of Authorization No. 1293 LS		FILE NAME: L2676B.DWG	
DRAWN BY: TR						DWG NO.: 104059-L2-676-B	
APPROVED BY: DR						SHEET 1 OF 1	