API NUMBER: 043 23599

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: 02/26/2018
Expiration Date: 08/26/2018

PERMIT TO DRILL

WELL LOCATION: Sec: 21 Twp: 19N Rge: 14W County: DEWEY

SPOT LOCATION: SW SW SW FEET FROM QUARTER: FROM SOUTH FROM WEST SECTION LINES: 260 253

Lease Name: LINCOLN 21_16-19N-14W Well No: 1HX Well will be 253 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 73102-5010

CHAIN LAND AND CATTLE CO., INC. 237687 STATE HIGHWAY 51

CANTON OK 73724

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

Name Depth Name Depth MISSISSIPPIAN 1 9499 6 2 7 8 3 4 9 10 672240 Spacing Orders: Location Exception Orders: Increased Density Orders:

Pending CD Numbers: 201800652 Special Orders:

201800654 201800653

Total Depth: 18956 Ground Elevation: 1715 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 100

Under Federal Jurisdiction: Yes 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 D. One time land application -- (REQUIRES PERMIT)

Chlorides Max: 8000 Average: 5000 H. SEE MEMO

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: RUSH SPRINGS

PERMIT NO: 18-33726

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: RUSH SPRINGS

HORIZONTAL HOLE 1

Sec. 16 Twp 19N Rge 14W County **DEWEY** NW Spot Location of End Point: ΝE SW NW Feet From: NORTH 1/4 Section Line: 700 WEST Feet From: 1/4 Section Line: 380

Depth of Deviation: 8528 Radius of Turn: 477

Direction: 2

Total Length: 9679

Measured Total Depth: 18956

True Vertical Depth: 9569

End Point Location from Lease,
Unit, or Property Line: 380

Notes:

Category Description

DEEP SURFACE CASING 2/1/2018 - 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 2/1/2018 - 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 2/1/2018 - 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 2/1/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 -

OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

Category Description

PENDING CD - 201800652 2/6/2018 - G58 - (640)(HOR) 16-19N-14W

EST MSSP

COMPL. INT. NCT 660' FB COMPL. INT. NCT 660' FB

(COEXIST SP. ORDER 251444 CSTR; SP. ORDER 222494 MSSSD)

REC 2/12/2018 (DENTON)

PENDING CD - 201800653 2/6/2018 - G58 - (I.O.) 16 & 21-19N-14W

EST MULTIUNIT HORIZONTAL WELL X201800652 MSSP (16-19N-14W) X672240 MSSP (21-19N-14W)

50% 16-19N-14W 50% 21-19N-14W NO OP. NAMED

REC 2/12/2018 (DENTON)

PENDING CD - 201800654 2/6/2018 - G58 - (I.O.) 16 & 21-19N-14W

X201800652 MSSP (16-19N-14W) X672240 MSSP (21-19N-14W)

COMPL. INT. (21-19N-14W) NCT 165' FSL, NCT 0' FNL, NCT 330' FWL COMPL. INT. (16-19N-14W) NCT 0' FSL, NCT 165' FNL, NCT 330' FWL

NO OP. NAMÈD

REC 2/12/2018 (DENTON)

SPACING - 672240 2/6/2018 - G58 - (640)(HOR) 21-19N-14W

EST MSSP, OTHER COMPL. INT. NCT 660' FB

(COEXIST SP. ORDER 222494 MSSSD; SP. ORDER 259552 CSTR)

300 Pointe Parkway Blvd. Yukon, OK 73099 405.787.6270 † 405.787.6276 f www.craftontull.com Crafton Tull

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SURFACE HOLE DATA

X: 1791280.3 Y: 401948.1

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD27

GPS DATUM: NAD27

GPS DATUM: NAD83

LONG: -98.70688727

BOTTOM HOLE DATA

GPS DATUM: NAD27

LAT: <u>36.12849309</u> LONG: <u>-98.70619717</u>

X: 1791446.0 **Y**: 411539.1

X: 1759843.2

Y: 411565.0

IAT: 36

STATE PLANE COORDINATES: ZONE: OK-NORTH NAD27

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD83

GPS DATUM: NAD83

LONG: -98.70656246

BY OPERATOR LISTED.

INFORMATION PROVIDED

BOTTOM HOLE

LAT: <u>36.10214273</u> LONG: <u>-98.70652192</u> STATE PLANE COORDINATES: **ZONE: OK-NORTH NAC**

GRID NORTH (NAD 27) OKLAHOMA - NORTH ZONE

OPERATOR: DEVON ENERGY PRODUCTION COMPANY, L.P.

LEASE NAME:LINCOLN 21_16-19N-14W

WELL NO. 1HX GOOD DRILL SITE: YES

COUNTY, STATE:OK **DEWEY**

GROUND ELEVATION:1715.07' GR. AT STAKE SURFACE HOLE FOOTAGE: 253' FWL - 260' FSL

SECTION: 21 TOWNSHIP: T19N RANGE: R14W

BOTTOM HOLE: 16-T19N-R14W, I.M.

ACCESSIBILITY TO LOCATION: FROM SOUTH LINE

TOPOGRAPHY & VEGETATION:

LOCATION FELL IN A FIELD

DISTANCE & DIRECTION FROM HWY JCT OR TOWN: AT THE JCT. OF OK-3 & OK-51 HEAD EAST 6.25MI ± TO N2410RD, HEAD NORTH 3.0MI ± TO E0630RD, PAD SITE IS ON NORTHEAST CORNER.

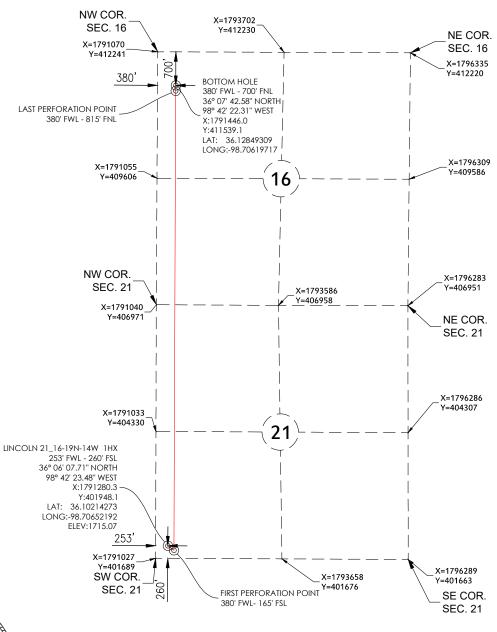
PLEASE NOTE THAT THIS LOCATION WAS STAKED ON THE GROUND UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL LAND SURVEYOR, BUT ACCURACY OF THIS EXHIBIT IS NOT GUARANTEED. PLEASE CONTACT CRAFTON TULL PROMPTLY IF ANY INCONSISTENCY IS DETERMINED, GPS DATA IS OBSERVED FROM RIK-GPS.

NOTE:X AND Y DATA SHOWN HEREON FOR SECTION CORNERS MAY NOT HAVE BEEN SURVEYED ON THE GROUND, AND FURTHER, DOES NOT REPRESENT A TRUE BOUNDARY SURVEY.

QUARTER SECTION DISTANCES MAY BE ASSUMED FROM A GOVERNMENT SURVEY PLAT OR ASSUMED ATA PROPORTIONATE DISTANCE FROM OPPOSING SECTION CORNERS, OR OCCUPATION THEREOF, AND MAY NOT HAVE BEEN MEASURED ON THE GROUND, AND FURTHER, DOES NOT REPRESENT A TRUE BOUNDARY SURVEY.

COUNTY, OKLAHOMA **DEWEY** 253' FWL - 260' FSL SECTION 21 TOWNSHIP 19N RANGE 14W I.M.

043-23599





GRAPHIC SCALE IN FEET 2000 1000 0 2000

REVISION		"LINCOLN 21_16-19N-14W 1HX"				
R1	BH SHIFT	_	PART OF THE SW/4 OF SECTION 21, T-19-N, R-14-W PROPOSED DRILL SITE DEWEY COUNTY, OKLAHOMA			
		SCALE: 1" = 2000' PLOT DATE: 12-18-2017	DRAWN BY:	SQ	SHEET NO.:	1 OF 6

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LEASE NAME:LINCOLN 21_16-19N-14W

WELL NO. 1HX

GOOD DRILL SITE: YES

COUNTY, STATE:OK **DEWEY**

GROUND ELEVATION:1715.07' GR. AT STAKE SURFACE HOLE FOOTAGE: 253' FWL - 260' FSL

SECTION: 21 TOWNSHIP: T19N RANGE: R14W

BOTTOM HOLE: 16-T19N-R14W, I.M.

ACCESSIBILITY TO LOCATION: FROM SOUTH LINE

TOPOGRAPHY & VEGETATION: LOCATION FELL IN A FIELD

DISTANCE & DIRECTION FROM HWY JCT OR TOWN: AT THE JCT. OF OK-3 & OK-51 HEAD EAST 6.25MI ± TO N2410RD, HEAD NORTH 3.0MI ± TO E0630RD, PAD SITE IS ON NORTHEAST CORNER.

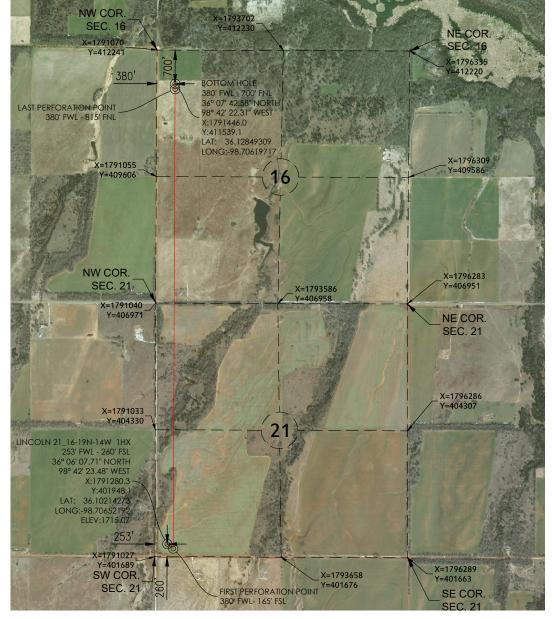
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COUNTY, OKLAHOMA DEWEY 253' FWL - 260' FSL SECTION 21 TOWNSHIP 19N RANGE 14W I.M.





SURFACE HOLE DATA STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD27

X: 1791280.3 Y: 401948.1

GPS DATUM: NAD27 LAT: 36.10214273 LONG: -98.70652192

STATE PLANE COORDINATES: **ZONE: OK-NORTH NAD**

X: 17

GPS DATUM: NAD83 LAT: <u>36.10218296</u> LONG: <u>-98.70688727</u>

BOTTOM HOLE DATA
STATE PLANE COORDINATES:
ZONE: OK-NORTH NAD27

X: 1791446.0 **Y**: 411539.1

GPS DATUM: NAD27 **LAT:** 36.12849309

LONG: <u>-98.70619717</u> **STATE PLANE COORDINATES: ZONE: OK-NORTH NAD83**

X:1759843.2 **Y**: 411565.0

GPS DATUM: NAD83 LAT: 36.128 LONG: <u>-98.70656246</u> **BOTTOM HOLE**

INFORMATION PROVIDED BY OPERATOR LISTED.



GRAPHIC SCALE IN FEET 1000 Ò 2000 2000

	REVISION	"LINCOLN 21_16-19N-14W 1HX"					
R1	BH SHIFT					<u> </u>	
		PART OF THE SW/4 OF SECTION 21, T-19-N, R-14-W PROPOSED DRILL SITE DEWEY COUNTY, OKLAHOMA			devo	n	
		SCALE: 1" = 2000'					
		PLOT DATE: 12-18-2017	DRAWN BY:	SQ	SHEET NO.:	2 OF 6	

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SURFACE HOLE DATA STATE PLANE COORDINATES:

X: 1791280.3 Y: 401948.1

ZONE: OK-NORTH NAD27

GPS DATUM: NAD27 LAT: 36.10214273 LONG: <u>-98.70652192</u> STATE PLANE COORDINATES: **ZONE: OK-NORTH NAD**

GPS DATUM: NAD83

LONG: -98.70688727

BOTTOM HOLE DATA

GPS DATUM: NAD27

LONG: <u>-98.70619717</u>

LAT: <u>36.12849309</u>

X: 1791446.0

Y: 411539.1

STATE PLANE COORDINATES: ZONE: OK-NORTH NAD27

LAT: 36.10218296

GRID NORTH (NAD 27) OKLAHOMA - NORTH ZONE

OPERATOR: DEVON ENERGY PRODUCTION COMPANY, L.P.

LEASE NAME:LINCOLN 21_16-19N-14W

WELL NO. 1HX

GOOD DRILL SITE: YES COUNTY, STATE:OK **DEWEY**

GROUND ELEVATION:1715.07' GR. AT STAKE

SURFACE HOLE FOOTAGE: 253' FWL - 260' FSL SECTION: 21 TOWNSHIP: T19N RANGE: R14W

BOTTOM HOLE: 16-T19N-R14W,I.M.

ACCESSIBILITY TO LOCATION: FROM SOUTH LINE

TOPOGRAPHY & VEGETATION: LOCATION FELL IN A FIELD

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CANADIAN

NE COR.

SEC. 16 X=1796335

Y=412220

X=1796283 Y=406951

NE COR.

SEC. 21

Y=404307

=401663

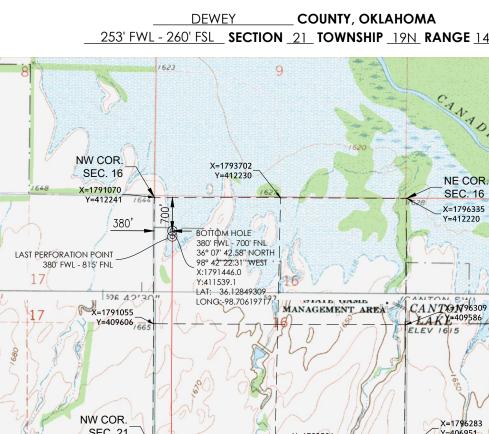
SE COR. SEC. 21

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STATE MANAGEM

COUNTY, OKLAHOMA **DEWEY** <u>253' FWL - 260' FSL</u> **SECTION** <u>21</u> **TOWNSHIP** <u>19N</u> **RANGE** <u>14W</u> **I.M.**



SEC. 21 X=1793586 Y=406958 Y=40697 0 X=1791033

L

FIRST PERFORATION 380' FWL- 165' FSL

Y=401676

Y=404330

LINCOLN 21 16-19N-14W 1HX

253' FWL - 260' FSL 36° 06' 07.71" NORTH 98° 42' 23.48" WEST X:1791280.3

LONG:-98.70652192 ELEV:1715.07

Y:401948.1 36.10214273

X=1791027 Y=401689

SW COR

SEC. 21

169

ZONE: OK-NORTH NAD83 X:1759843.2 **Y**: 411565.0 GPS DATUM: NAD83 IAT: 36 **LONG:** -98.70656246 **BOTTOM HOLE**

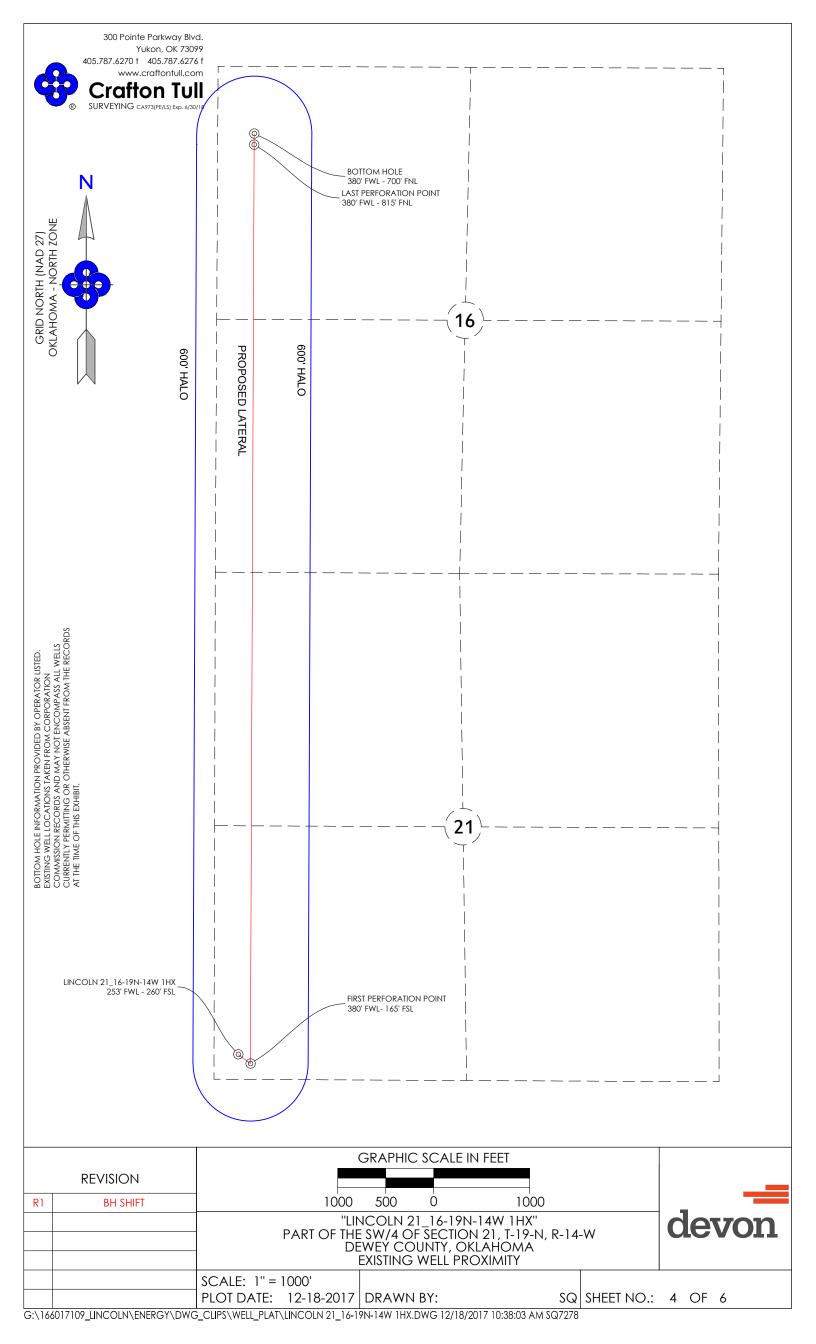
STATE PLANE COORDINATES:

INFORMATION PROVIDED BY OPERATOR LISTED.



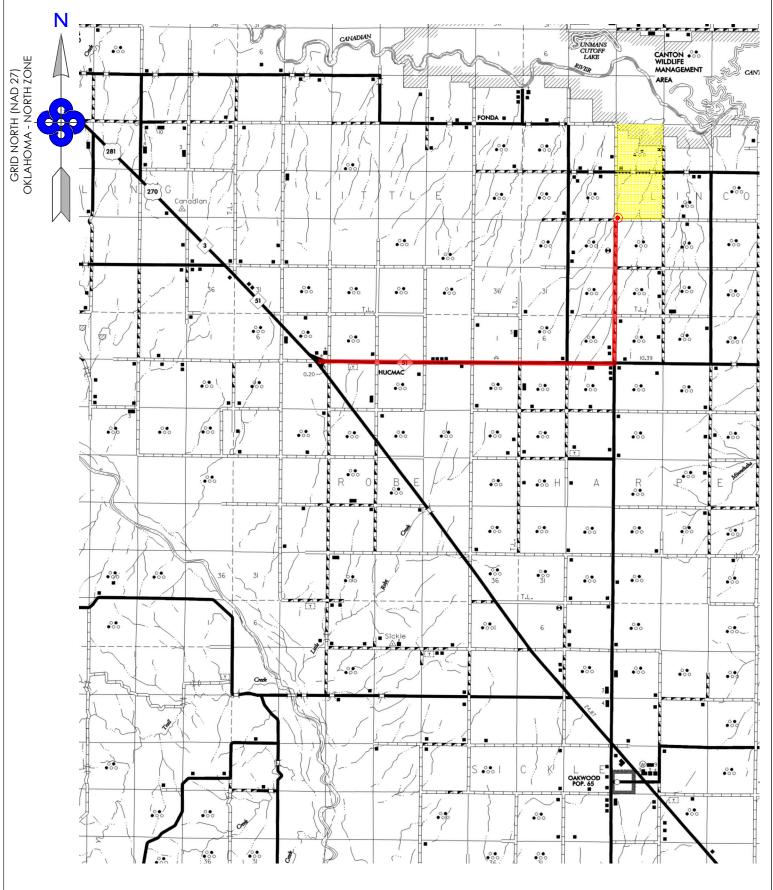
GRAPHIC SCALE IN FEET 1000 2000 2000 0

_16-19N-14W 1HX"	"LINCOLN 21_16-19N-14W 1HX"				
	PART OF THE SW/4 OF SECTION 21, T-19-N, R-14-W PROPOSED DRILL SITE DEWEY COUNTY, OKLAHOMA				
SECTION 21, T-19-N, R-14-W					
NTY, OKLAHOMA					
		SCALE: 1" = 2000'			
IBY: SQ SHEET NO.: 3 OF 6	DRAWN BY:	PLOT DATE: 12-18-2017			
I BY: SQ SHEET NO.: 3 OF 6	PROPOSED DRILL SITE /EY COUNTY, OKLAHOMA	DEW SCALE: 1" = 2000' PLOT DATE: 12-18-2017	BH SHIFT	R1	





VICINITY MAP





COUNTY: ___DEWEY ____ STATE: ___OK

OPERATOR: Devon Energy Production Company, L.P.

	GRAPHIC SCALE IN MILES						
-				\dashv			
2		()	2			

REVISION		"LINCOLN 21_16-19N-14W 1HX"					
R1	BH SHIFT	PART OF THE SW/4 OF SECTION 21, T-19-N, R-14-W PROPOSED DRILL SITE DEWEY COUNTY, OKLAHOMA				de	von
		SCALE: 1/2" = 1 MILE PLOT DATE: 12-18-201	17 DRAWN BY:		SHEET NO.:	5 OF	6

