API NUMBER: 017 25526

Oil & Gas

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

Approval Date: 09/16/2019
Expiration Date: 03/16/2021

Horizontal Hole Multi Unit

PERMIT TO DRILL

OT LOCATION	: NW SE	SE SW	FEET FROM QUARTER: FROM SECTION LINES:	SOUTH FROM 401	WEST 2092				
Lease Name:	JACOBS 23_14-	13N-9W	Well No:	7HX	v	Well will be 401 feet from near	est unit or lease boundary		
Operator Name:	DEVON ENER	RGY PRODUCTION (CO LP	Telephone:	4052353611; 4052353	OTC/OCC Number:	20751 0		
DEVON I	ENERGY PRO	DDUCTION CO	LP		TRAVIS D. J	ACORS.			
333 W SI	HERIDAN AVI	E			PO BOX 113		,003		
OKLAHO	MA CITY,	OK	73102-5015				70044		
					CALUMET	OK	73014		
Formation(s		alid for Listed Fo	• •		Nama	Don	. th		
) (Permit Va Name MISSISSIPPIAN	alid for Listed Fo	rmations Only): Depth 8895		Name 6	Dep	oth		
1	Name	alid for Listed Fo	Depth			Deg	oth		
1 2 3	Name MISSISSIPPIAN	alid for Listed Fo	Depth 8895		6 7 8	Dep	oth		
1 2 3 4	Name MISSISSIPPIAN	alid for Listed Fo	Depth 8895		6 7 8 9	Deg	oth		
1 2 3 4 5	Name MISSISSIPPIAN	alid for Listed Fo	Depth 8895 10458	n Orders:	6 7 8				
1 2 3 4	Name MISSISSIPPIAN WOODFORD	alid for Listed Fo	Depth 8895	n Orders:	6 7 8 9	Dep Increased Density Orders:	700522		
1 2 3 4 5	Name MISSISSIPPIAN WOODFORD 560605	alid for Listed Fo	Depth 8895 10458	n Orders:	6 7 8 9				
1 2 3 4 5	Name MISSISSIPPIAN WOODFORD 560605 567641 701983		Depth 8895 10458	n Orders:	6 7 8 9		700522		
1 2 3 4 5 pacing Orders:	Name MISSISSIPPIAN WOODFORD 560605 567641 701983	63	Depth 8895 10458	n Orders:	6 7 8 9	Increased Density Orders:	700522		
1 2 3 4 5 pacing Orders:	Name MISSISSIPPIAN WOODFORD 560605 567641 701983 bers: 2019034 2019038	63	Depth 8895 10458 Location Exception	n Orders:	6 7 8 9 10	Increased Density Orders:	700522 700524		

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: Yes

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

H. SEE MEMO

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: DOG CREEK

PERMIT NO: 19-36888

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: DOG CREEK

HORIZONTAL HOLE 1

Sec 14 Twp 13N Rge 9W County CANADIAN

Spot Location of End Point: NE NW NW NE
Feet From: NORTH 1/4 Section Line: 50
Feet From: EAST 1/4 Section Line: 2250

Depth of Deviation: 10117 Radius of Turn: 477

Direction: 6

Total Length: 9705

Measured Total Depth: 20572

True Vertical Depth: 10595

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

Notes:

Category Description

DEEP SURFACE CASING 8/14/2019 - 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 8/14/2019 - 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

INCREASED DENSITY - 700522 8/19/2019 - GC2 - 14-13N-9W

X567641 WDFD

9 WELLS

DEVON ENERGY PRODUCTION COMPANY, L.P.

8-8-2019

INCREASED DENSITY - 700524 8/19/2019 - GC2 - 23-13N-9W

X560605 WDFD 9 WELLS

DEVON ENERGY PRODUCTION COMPANY, L.P.

8-8-2019

LOCATION EXCEPTION - 702041 8/19/2019 - GC2 - (I.O.) 14 & 23-13N-9W

X567641 MSSP, WDFD 14-13N-9W X560605 MSSP, WDFD 23-13N-9W

X165:10-3-28(C)(2)(B) WDFD MAY BE CLOSER THAN 600' TO ANNALOU 1-14H

COMPL. INT. (23-13N-9W) NCT 165' FSL, NCT 0' FNL, NCT 1,650' FEL COMPL. INT. (14-13N-9W) NCT 0' FSL, NCT 165' FNL, NCT 1,650' FEL

DEVON ENERGY PRODUCTION COMPANY, L.P.

9/11/2019

MEMO 8/14/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 -

OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201903843 8/19/2019 - GC2 - (I.O.) 14 & 23-13N-9W

X165:10-3-28(C)(2)(B) WDFD (JACOBS 23_14-13N-9W 7HX) MAY BE CLOSER THAN 600' TO JACOBS 23_14-13N-9W 8HX

NO OP. NAMED

REC 8-12-2019 (THOMAS)

SPACING - 560605 8/19/2019 - GC2 - (640) 23-13N-9W

EXT OTHER EXT 205440 WDFD EST MSSP, OTHERS

VAC 279098 MSSLM, MSCST, OTHERS

SPACING - 567641 8/19/2019 - GC2 - (640) 14-13N-9W

EXT 562163 MSSP, WDFD, OTHERS VAC 260871 MSCST, MSSLM, OTHERS

EXT OTHERS

SPACING - 701983 8/19/2019 - GC2 - (I.O.) 14 & 23-13N-9W

EST MULTIUNIT HORÍZONTAL WELL X567641 MSSP, WDFD 14-13N-9W X560605 MSSP, WDFD 23-13N-9W

(MSSP ASSOCIATED COMMON SOURCE OF SUPPLY TO WDFD)

50% 14-13N-9W 50% 23-13N-9W

DEVON ENERGY PRODUCTION COMPANY, L.P.

9-10-2019

OPERATOR: DEVON ENERGY PRODUCTION COMPANY, L.P. 300 Pointe Parkway Blvd. Yukon, OK 73099 LEASE NAME: JACOBS 23_14-13N-9W **DISTANCE & DIRECTION FROM HWY JCT OR TOWN:** 405.787.6270 † 405.787.6276 f WELL NO. 7HX FROM THE INTERSECTION OF HWY 270 & 122ND ST IN www.craftontull.com CALUMET, GO \$ 1.0 MI. TO DARRINGTON RD NW, THEN GO Crafton Tull GOOD DRILL SITE: YES 0.6 MI. W. LEASE RD IS ON THE N SIDE OF RD CANADIAN COUNTY, STATE:OK 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 PROMPILY IF ANY INCONSISTENCY IS DETERMINED, GPS DATA IS OBSERVED FROM RIK-GPS.

ONDIE: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 AT A 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. **GROUND ELEVATION:**1411.81' GR. AT STAKE SURFACE HOLE FOOTAGE: 2091.5' FWL - 401' FSL SECTION: 23 TOWNSHIP: T13N RANGE: R9W BOTTOM HOLE: 14-T13N-R9W,I.M. ACCESSIBILITY TO LOCATION: FROM SOUTH LINE **TOPOGRAPHY & VEGETATION:** Ν LOCATION FELL IN A FIELD COUNTY, OKLAHOMA CANADIAN GRID NORTH (NAD 27) OKLAHOMA - NORTH ZONE 2091.5' FWL - 401' FSISECTION 23 TOWNSHIP 13N RANGE 9W I.M. API: 017-25526 BOTTOM HOLE 2250' FEL - 50' FNL 35° 36' 33.03" NORTH 98° 07' 33.23" WEST 75 07 33.23 WEST X:1962574.2 Y:221769.5 LAT: 35.60917532 LONG:-98.12589860 5 X=1962183 NW COR. Y=221829 SEC. 14 X=1959543 NE COR. <u>____</u>2250' SEC. 14 LAST PERFORATION POINT 2250' FEL - 165' FNL Y=221812 X=1959547 **SURFACE HOLE DATA STATE PLANE COORDINATES:** 14 **ZONE:** OK-NORTH NAD27 **X**: 1961664.3 Y: 211640.5 GPS DATUM: NAD27 **LAT:** 35.58134529 LONG: <u>-98.12891417</u> STATE PLANE COORDINATES: ZONE: OK X=1962191 Y=216530 X=1964824 Y=216537 X=1959551 Y=216525 NE COR. **NW COR** GPS DATUM: NAD83 SEC. 23 SEC. 23 **LONG**: -98.12924740 **BOTTOM HOLE DATA** STATE PLANE COORDINATES: **ZONE: OK-NORTH NAD2 X**: 1962574.2 X=1959550 23 **Y**: 221769.5 JACOBS 23_14-13N-9W 7HX 2091.5' FWL - 401' FSL GPS DATUM: NAD27 **LAT:** 35.60917532 35° 34' 52.84" NORTH 98° 07' 44.09" WEST X:1961664.3 LONG: <u>-98.12589860</u> STATE PLANE COORDINATES: Y:211640.5 **ZONE: OK-NORTH NAD83** 35 58134529 LONG:-98.12891417 ELEV:1411.81 X:1930975.8 **Y**: 221793.4 2091.5 X=1964829 Y=211240 SW COR GPS DATUM: NAD83 SEC. 23 IAT: 35 .60922442 SE COR. X=1959550 Y=211239 FIRST PERFORATION POINT LONG: <u>-98.12623278</u> 2250' FEL- 165' FSL SEC. 23 401 **BOTTOM HOLE** X=1962190 INFORMATION PROVIDED BY OPERATOR LISTED. ESSIONAL **DENVER** VINCHESTER 1952 GRAPHIC SCALE IN FEET OKLAHOMP 1000 2000 0 2000 **REVISION** "JACOBS 23_14-13N-9W 7HX" PART OF THE SW/4 OF SECTION 23, T-13-N, R-9-W PROPOSED DRILL SITE CANADIAN COUNTY, OKLAHOMA devon

SHEET NO.: 1 OF 6

SCALE: 1" = 2000'

300 Pointe Parkway Blvd. Yukon, OK 73099 405.787.6270 † 405.787.6276 f www.craftontull.com Crafton Tull OPERATOR: DEVON ENERGY PRODUCTION COMPANY, L.P.

LEASE NAME: JACOBS 23_14-13N-9W

WELL NO. 7HX

GOOD DRILL SITE: YES CANADIAN COUNTY, STATE:OK

GROUND ELEVATION:1411.81' GR. AT STAKE

SURFACE HOLE FOOTAGE: 2091.5' FWL - 401' FSL

SECTION: 23 TOWNSHIP: T13N RANGE: R9W

BOTTOM HOLE: 14-T13N-R9W,I.M.

ACCESSIBILITY TO LOCATION: FROM SOUTH LINE

TOPOGRAPHY & VEGETATION: LOCATION FELL IN A FIELD

DISTANCE & DIRECTION FROM HWY JCT OR TOWN: FROM THE INTERSECTION OF HWY 270 & 122ND ST IN CALUMET, GO \$ 1.0 MI. TO DARRINGTON RD NW, THEN GO

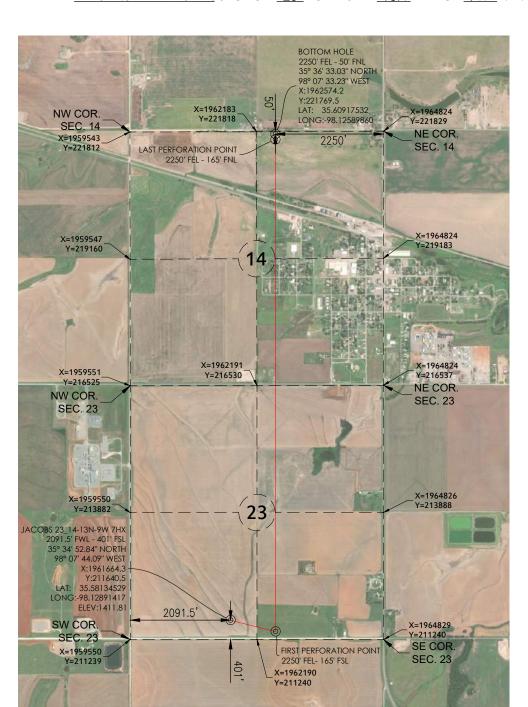
0.6 MI. W. LEASE RD IS ON THE N SIDE OF RD

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.

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COUNTY, OKLAHOMA CANADIAN <u>2091.5' FWL - 401' FS</u>SECTION <u>23</u> TOWNSHIP <u>13N</u> RANGE <u>9W</u> I.M.





SURFACE HOLE DATA STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD27 X: 1961664.3

Y: 211640.5 GPS DATUM: NAD27 LAT: 35.58134529 LONG: <u>-98.12891417</u>

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

X: 1930066.1 Y: 211664.4

GPS DATUM: NAD83 LAT: 35 **LONG**: -98.12924740

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

X: 1962574.2 **Y**: 221769.5

GPS DATUM: NAD27 **LAT:** 35.60917532 LONG: <u>-98.12589860</u>

STATE PLANE COORDINATES: **ZONE: OK-NORTH NAD83** X:1930975.8 **Y**: 221793.4

GPS DATUM: NAD83 **LAT:** <u>35.60922442</u> LONG: <u>-98.12623278</u>

BOTTOM HOLE INFORMATION PROVIDED BY OPERATOR LISTED.



GRAPHIC SCALE IN FEET								
20	00	10	00	()		20	00

REVISION	REVISION "JACOBS 23_14-13N-9W 7HX"				
	_	SW/4 OF SECTION 23, T-13-N, R-9 PROPOSED DRILL SITE DIAN COUNTY, OKLAHOMA	P-W	devon	
	SCALE: 1" = 2000' PLOT DATE: 08-27-2019	DRAWN BY:	JJ SHEET N	NO.: 2 OF 6	

300 Pointe Parkway Blvd. Yukon, OK 73099 405.787.6270 † 405.787.6276 f www.craftontull.com Crafton Tull SURVEYING CA973(PE/LS) Exp. 6/30/20

OPERATOR: DEVON ENERGY PRODUCTION COMPANY, L.P.

LEASE NAME: JACOBS 23_14-13N-9W

WELL NO. 7HX

GOOD DRILL SITE: YES CANADIAN COUNTY, STATE:OK

GROUND ELEVATION:1411.81' GR. AT STAKE

SURFACE HOLE FOOTAGE: 2091.5' FWL - 401' FSL

SECTION: 23 TOWNSHIP: T13N RANGE: R9W

BOTTOM HOLE: 14-T13N-R9W,I.M.

ACCESSIBILITY TO LOCATION: FROM SOUTH LINE

TOPOGRAPHY & VEGETATION:

LOCATION FELL IN A FIELD

DISTANCE & DIRECTION FROM HWY JCT OR TOWN:

FROM THE INTERSECTION OF HWY 270 & 122ND ST IN CALUMET, GO \$ 1.0 MI. TO DARRINGTON RD NW, THEN GO

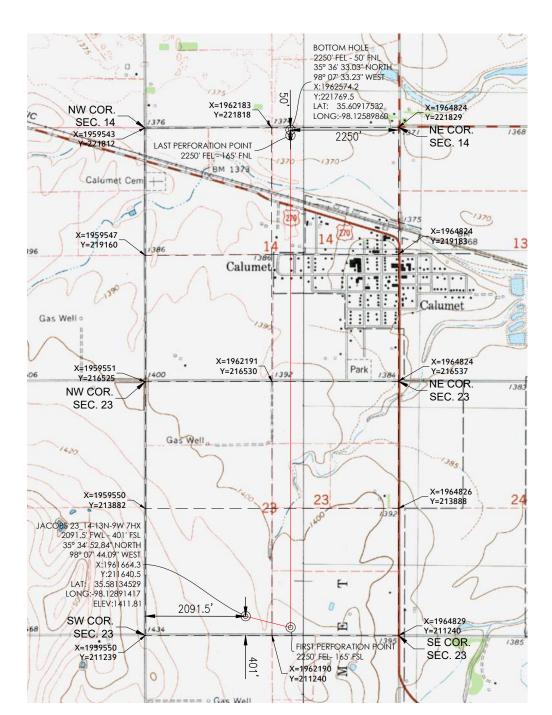
0.6 MI. W. LEASE RD IS ON THE N SIDE OF RD

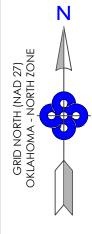
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COUNTY, OKLAHOMA CANADIAN 2091.5' FWL - 401' FSISECTION 23 TOWNSHIP 13N RANGE 9W I.M.





SURFACE HOLE DATA STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD27 X: 1961664.3 Y: 211640.5

GPS DATUM: NAD27 **LAT:** 35.58134529 LONG: -98.12891417

STATE PLANE COORDINATES: **ZONE: OK-NORTH NA** X: 1930066.

GPS DATUM: NAD83 LAT: 35 **LONG**: -98.12924740

Y: 211664.4

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

X: 1962574.2 **Y**: 221769.5

GPS DATUM: NAD27 LAT: 35.60917532 LONG: <u>-98.12589860</u>

STATE PLANE COORDINATES: **ZONE: OK-NORTH NAD83** X:1930975.8 **Y**: 221793.4

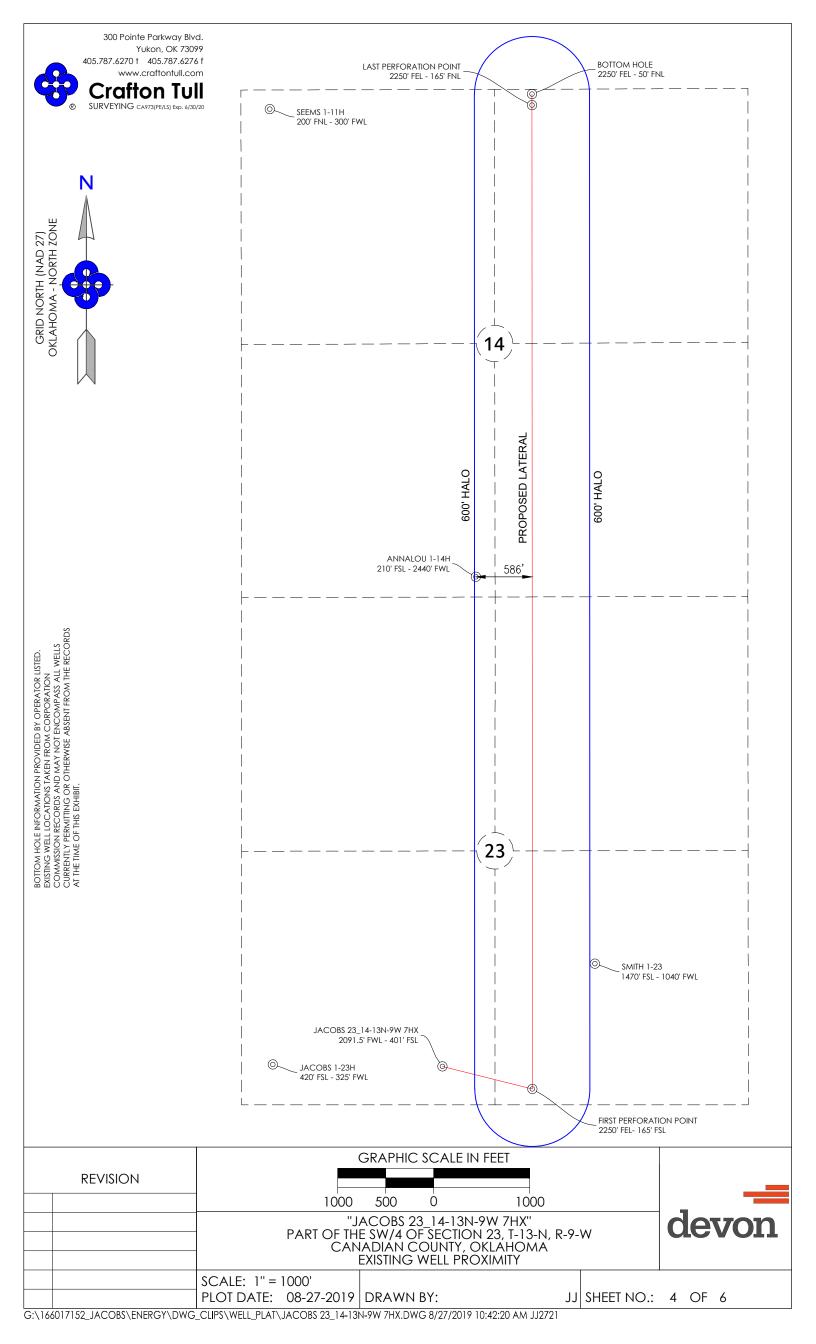
GPS DATUM: NAD83 **LAT:** <u>35.60922442</u> LONG: <u>-98.12623278</u>

BOTTOM HOLE INFORMATION PROVIDED BY OPERATOR LISTED.



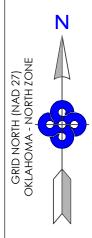
GRAPHIC SCALE IN FEET 1000 2000 0 2000

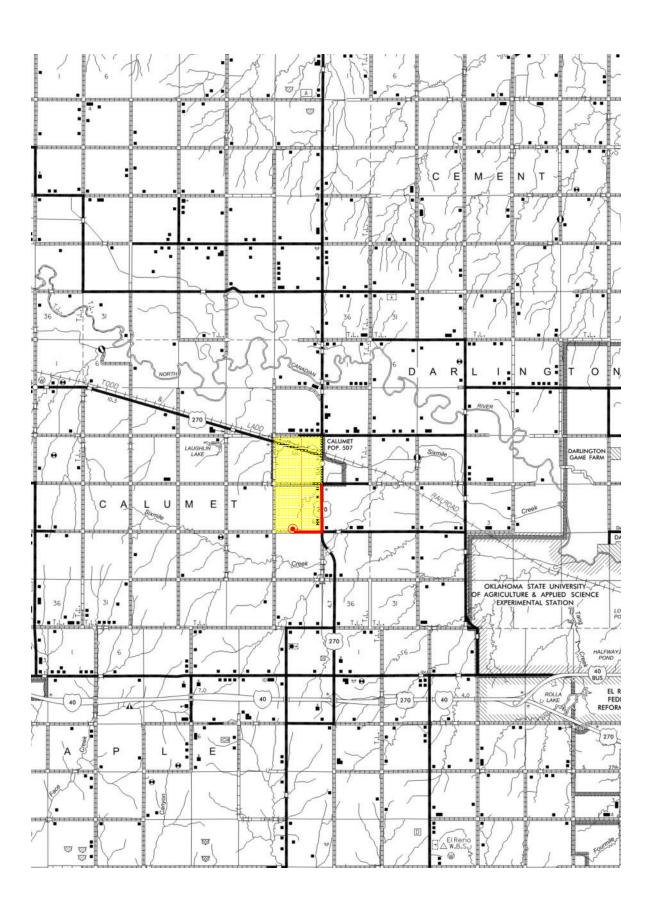
REVISION	"JA					
	PART OF THE SW/4 OF SECTION 23, T-13-N, R-9-W			de	von	
	SCALE: 1" = 2000' PLOT DATE: 08-27-2019	DRAWN BY:	JJ	SHEET NO.:	3 OF	6





VICINITY MAP

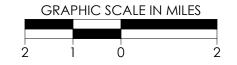




SEC. <u>23</u> TWP. <u>13N</u> RNG. <u>9W</u>

COUNTY: CANADIAN STATE: OK

OPERATOR: Devon Energy Production Company, L.P.



REVISIO1	1	"JACOBS 23_14-13N-9W 7HX"						÷
		PART OF THE SW/4 OF SECTION 23, T-13-N, R-9-W PROPOSED DRILL SITE CANADIAN COUNTY, OKLAHOMA			devon			
		SCALE: 1/2" PLOT DATE:		DRAWN BY:	JJ	SHEET NO.:	5 OF 6	

