

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

API NUMBER: 011 24126

Approval Date: 11/20/2018

Expiration Date: 05/20/2020

Horizontal Hole

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 07 Twp: 15N Rge: 10W County: BLAINE

SPOT LOCATION: ☐ SE ☐ SW ☐ SW ☐ SW FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 300 405

Lease Name: CENTAUR 7_6-15N-10W

Well No: 2HX

Well will be 300 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

THE LIFE ESTATE OF KAREN RING
1209 CANTEBURY DRIVE
YUKON OK 73099

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	10870	6	
2	WOODFORD	11463	7	
3			8	
4			9	
5			10	

Spacing Orders: 664198

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201807016
201807054
201807056
201807017

Special Orders:

Total Depth: 21032

Ground Elevation: 1525

Surface Casing: 1999

Depth to base of Treatable Water-Bearing FM: 80

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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is AP/TE DEPOSIT

Pit Location Formation: TERRACE

D. One time land application -- (REQUIRES PERMIT)
H. SEE MEMO

PERMIT NO: 18-35580

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 06 Twp 15N Rge 10W County BLAINE

Spot Location of End Point: NW NE NW NW

Feet From: NORTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 750

Depth of Deviation: 10095

Radius of Turn: 477

Direction: 2

Total Length: 10188

Measured Total Depth: 21032

True Vertical Depth: 11463

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

Notes:

Category

Description

DEEP SURFACE CASING

10/31/2018 - GA8 - 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

10/31/2018 - GA8 - 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

10/31/2018 - GA8 - 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

10/31/2018 - GA8 - 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 24126 CENTAUR 7_6-15N-10W 2HX

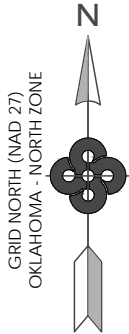
Category	Description
PENDING CD - 201807016	11/6/2018 - G58 - (E.O.)(640)(HOR) 7-15N-10W EXT 643729 MSSP, WDFD POE TO BHL (MSSP) NLT 660' FB POE TO BHL (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL REC 11/8/2018 (THOMAS) AFFIRMED BY MACGUIGAN 11/19/2018
PENDING CD - 201807017	11/6/2018 - G58 - 6-15N-10W X664198 MSSP, WDFD 4 WELLS NO OP. NAMED REC 11/7/2018 (THOMAS)
PENDING CD - 201807054	11/6/2018 - G58 - (E.O.) 6 & 7-15N-10W EST MULTIUNIT HORIZONTAL WELL X664198 MSSP, WDFD 6-15N-10W X201807016 MSSP, WDFD 7-15N-10W (WDFD IS ADJACENT COMMON SOURCE OF SUPPLY TO MSSP) 50% 6-15N-10W 50% 7-15N-10W NO OP. NAMED REC 11/8/2018 (THOMAS) AFFIRMED BY MACGUIGAN 11/19/2018
PENDING CD - 201807056	11/6/2018 - G58 - (E.O.) 6 & 7-15N-10W X664198 MSSP, WDFD 6-15N-10W X201807016 MSSP, WDFD 7-15N-10W X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO EXISTING/PROPOSED WELL COMPL. INT. 7-15N-10W NCT 165' FSL, NCT 0' FNL, NCT 330' FWL COMPL. INT. 6-15N-10W NCT 0' FSL, NCT 165' FNL, NCT 330' FWL NO OP. NAMED REC 11/8/2018 (THOMAS) AFFIRMED BY MACGUIGAN 11/19/2018
SPACING - 664198	11/6/2018 - G58 - (640)(HOR) 6-15N-10W EXT 640263 MSSP, WDFD POE TO BHL (MSSP) NLT 660' FB POE TO BHL (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL

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

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011-24126



OPERATOR: DEVON ENERGY PRODUCTION COMPANY, L.P.

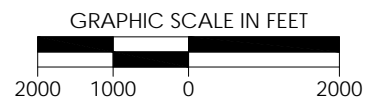
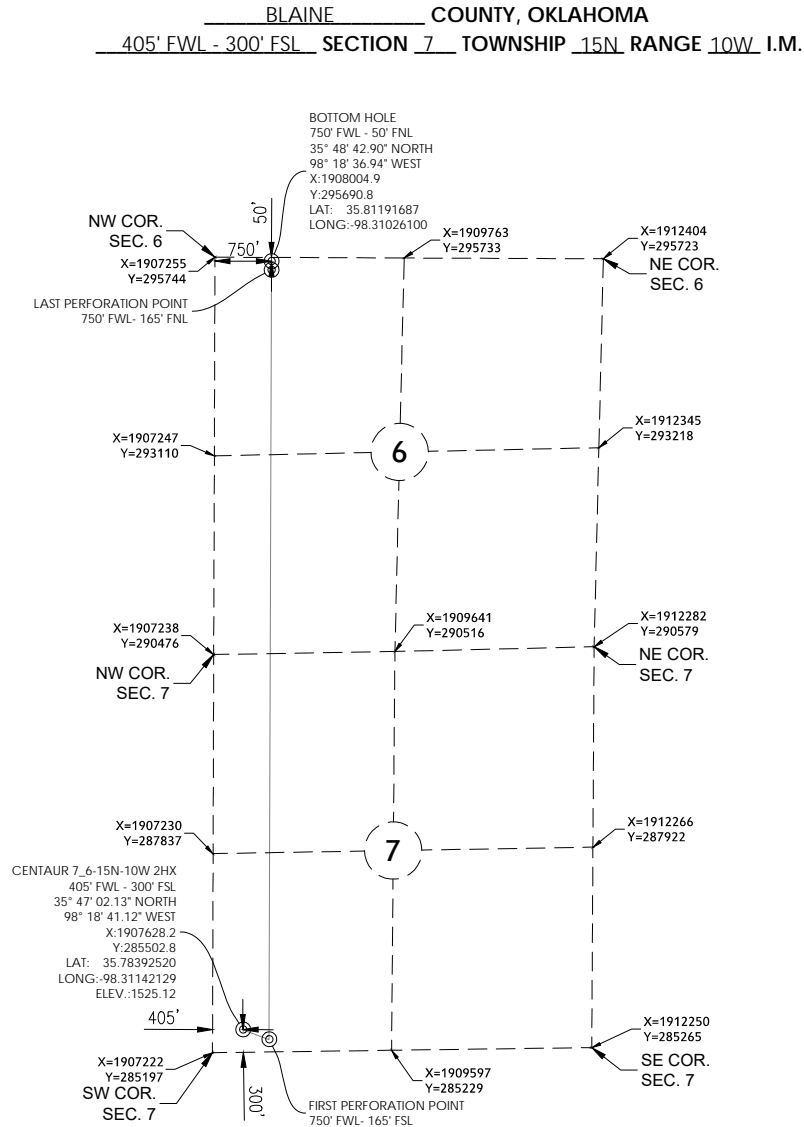
LEASE NAME: CENTAUR 7_6-15N-10W
WELL NO. 2HX
GOOD DRILL SITE: YES
BLAINE COUNTY, STATE: OK
GROUND ELEVATION: 1525.12' GR. AT STAKE
SURFACE HOLE FOOTAGE: 405' FWL - 300' FSL
SECTION: 7 TOWNSHIP: T15N RANGE: R10W
BOTTOM HOLE: 6-T15N-R10W I.M.
ACCESSIBILITY TO LOCATION: FROM SOUTH LINE
TOPOGRAPHY & VEGETATION:
LOCATION FELL IN A FIELD


DISTANCE & DIRECTION FROM HWY JCT OR TOWN:
FROM INTERSECTION HWY 3 AND HWY 281 IN WATONGA,
EAST ON HWY 3 4 MILES, SOUTH ON N2610 RD 4 MILES,
EAST ON E0850 RD 2.1 MILES, PAD ON NORTH 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 RTK-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 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.

SURFACE HOLE DATA
STATE PLANE COORDINATES:
ZONE: OK-NORTH NAD27
X: 1907628.2
Y: 285502.8
GPS DATUM: NAD27
LAT: 35.78392520
LONG: -98.31142129
STATE PLANE COORDINATES:
ZONE: OK-NORTH NAD83
X: 1876028.2
Y: 285526.8
GPS DATUM: NAD83
LAT: 35.78396943
LONG: -98.31176573

BOTTOM HOLE DATA
STATE PLANE COORDINATES:
ZONE: OK-NORTH NAD27
X: 1908004.9
Y: 295690.8
GPS DATUM: NAD27
LAT: 35.81191687
LONG: -98.31026100
STATE PLANE COORDINATES:
ZONE: OK-NORTH NAD83
X: 1876404.8
Y: 295714.7
GPS DATUM: NAD83
LAT: 35.81196019
LONG: -98.31060615
BOTTOM HOLE
INFORMATION PROVIDED
BY OPERATOR LISTED.



REVISION		"CENTAUR 7_6-15N-10W 2HX"		
		PART OF THE SW/4 OF SECTION 7, T-15-N, R-10-W PROPOSED DRILL SITE BLAINE COUNTY, OKLAHOMA		
		SCALE: 1" = 2000'		
		PLOT DATE: 09-18-2018	DRAWN BY: JJ	SHEET NO.: 1 OF 6

OPERATOR: DEVON ENERGY PRODUCTION COMPANY, L.P.

LEASE NAME: CENTAUR 7_6-15N-10W
WELL NO. 2HX
GOOD DRILL SITE: YES
BLAINE COUNTY, STATE: OK
GROUND ELEVATION: 1525.12' GR. AT STAKE
SURFACE HOLE FOOTAGE: 405' FWL - 300' FSL
SECTION: 7 TOWNSHIP: T15N RANGE: R10W
BOTTOM HOLE: 6-T15N-R10W.I.M.
ACCESSIBILITY TO LOCATION: FROM SOUTH LINE
TOPOGRAPHY & VEGETATION: _____
LOCATION FELL IN A FIELD _____

DISTANCE & DIRECTION FROM HWY JCT OR TOWN: _____
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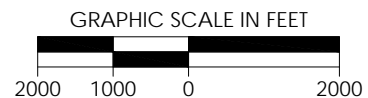
BLAINE COUNTY, OKLAHOMA
405' FWL - 300' FSL SECTION 7 TOWNSHIP 15N RANGE 10W I.M.


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ZONE: OK-NORTH NAD27
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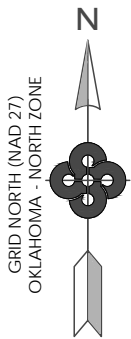
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BOTTOM HOLE
INFORMATION PROVIDED
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2018.09.19 08:10:24-05'00"



REVISION		"CENTAUR 7_6-15N-10W 2HX"		 devon
		PART OF THE SW/4 OF SECTION 7, T-15-N, R-10-W PROPOSED DRILL SITE BLAINE COUNTY, OKLAHOMA		
		SCALE: 1" = 2000'		
		PLOT DATE: 09-18-2018	DRAWN BY: JJ	SHEET NO.: 2 OF 6



OPERATOR: DEVON ENERGY PRODUCTION COMPANY, L.P.

LEASE NAME: CENTAUR 7_6-15N-10W
WELL NO. 2HX
GOOD DRILL SITE: YES
BLAINE COUNTY, STATE: OK
GROUND ELEVATION: 1525.12' GR. AT STAKE
SURFACE HOLE FOOTAGE: 405' FWL - 300' FSL
SECTION: 7 TOWNSHIP: T15N RANGE: R10W
BOTTOM HOLE: 6-T15N-R10W.I.M.
ACCESSIBILITY TO LOCATION: FROM SOUTH LINE
TOPOGRAPHY & VEGETATION: _____
LOCATION FELL IN A FIELD _____

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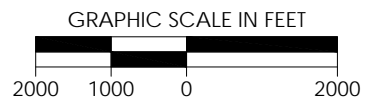
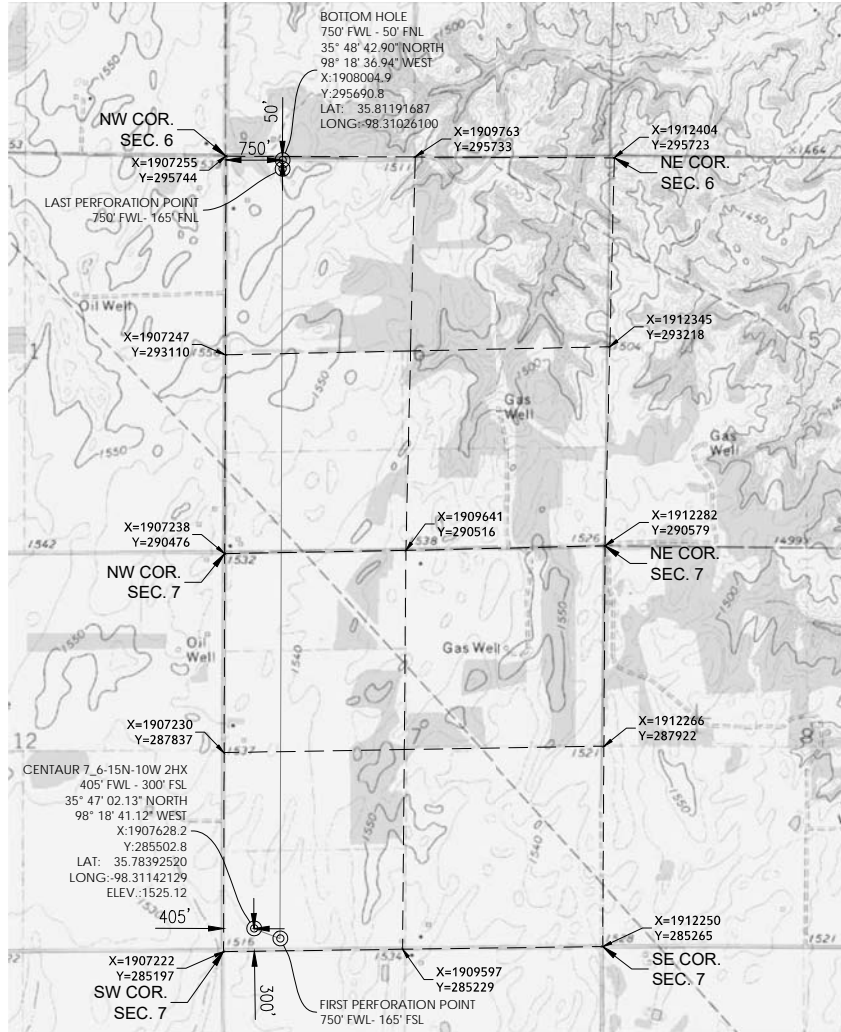
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BLAINE COUNTY, OKLAHOMA
405' FWL - 300' FSL SECTION 7 TOWNSHIP 15N RANGE 10W I.M.

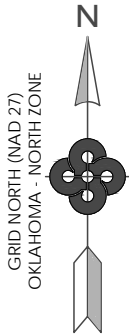
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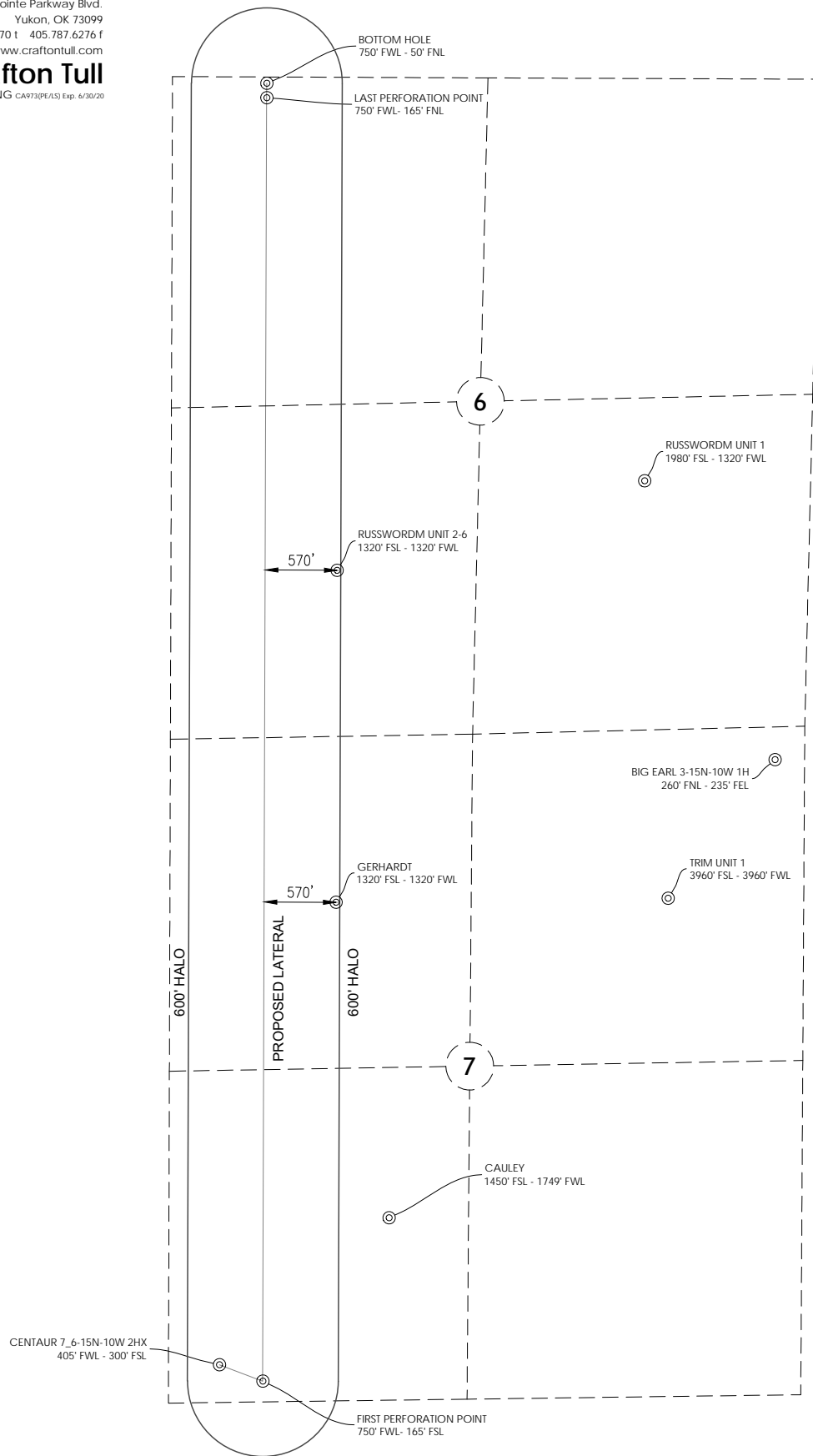
BOTTOM HOLE
INFORMATION PROVIDED
BY OPERATOR LISTED.





REVISION		"CENTAUR 7_6-15N-10W 2HX"			
		PART OF THE SW/4 OF SECTION 7, T-15-N, R-10-W PROPOSED DRILL SITE BLAINE COUNTY, OKLAHOMA			
		SCALE: 1" = 2000'	DRAWN BY: JJ		SHEET NO.: 3 OF 6
		PLOT DATE: 09-18-2018			

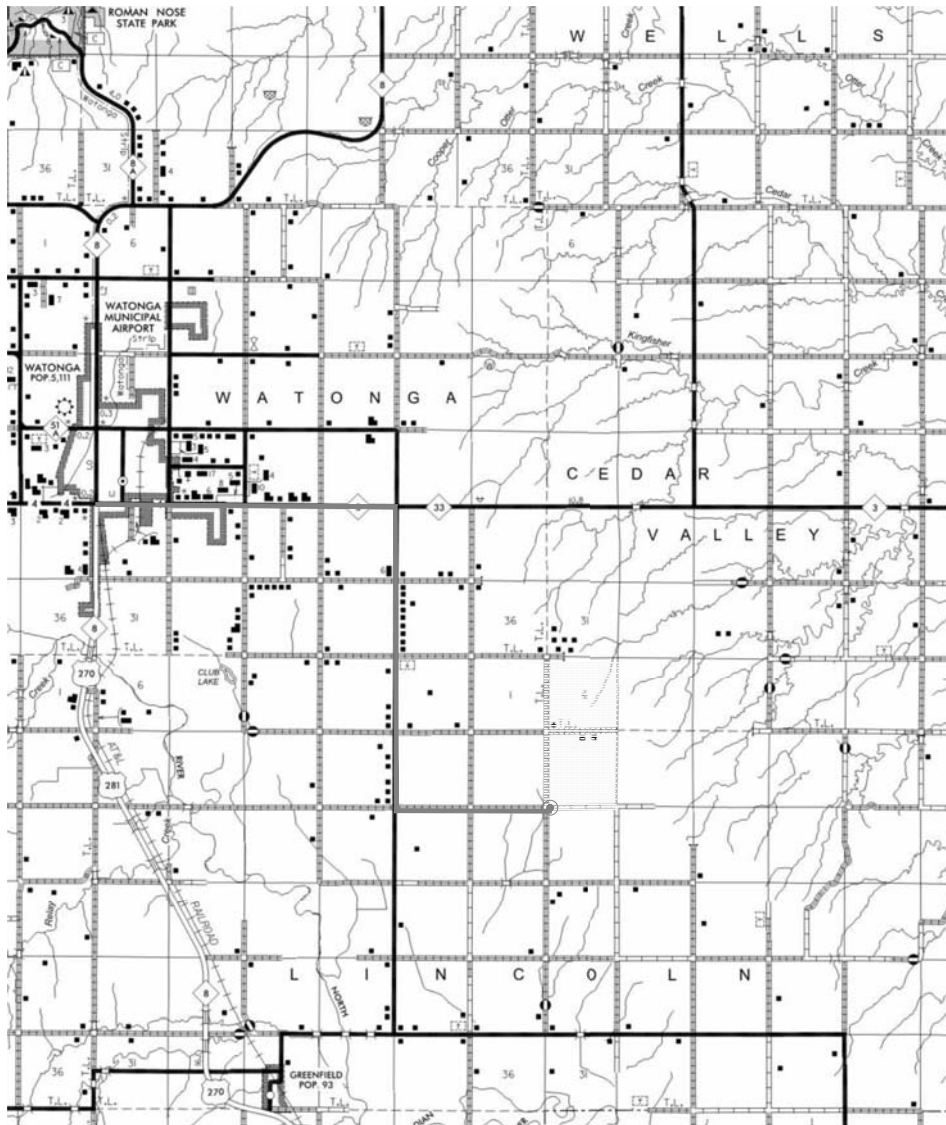
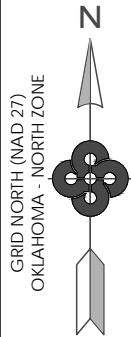


BOTTOM HOLE INFORMATION PROVIDED BY OPERATOR LISTED.
EXISTING WELL LOCATIONS TAKEN FROM CORPORATION
COMMISSION RECORDS AND MAY NOT ENCOMPASS ALL WELLS
CURRENTLY PERMITTING OR OTHERWISE ABSENT FROM THE RECORDS
AT THE TIME OF THIS EXHIBIT.



REVISION		GRAPHIC SCALE IN FEET		
				
		"CENTAUR 7_6-15N-10W 2HX"		
		PART OF THE SW/4 OF SECTION 7, T-15-N, R-10-W		
		BLAINE COUNTY, OKLAHOMA		
		EXISTING WELL PROXIMITY		
		SCALE: 1" = 1000'	PLOT DATE: 09-18-2018	DRAWN BY: JJ
				SHEET NO.: 4 OF 6

VICINITY MAP




SEC. 7 TWP. 15N RNG. 10W

COUNTY: BLAINE STATE: OK

OPERATOR: Devon Energy Production Company, L.P.

GRAPHIC SCALE IN MILES



REVISION		"CENTAUR 7_6-15N-10W 2HX"		
		PART OF THE SW/4 OF SECTION 7, T-15-N, R-10-W PROPOSED DRILL SITE BLAINE COUNTY, OKLAHOMA		
		SCALE: 1/2" = 1 MILE		
		PLOT DATE: 09-18-2018	DRAWN BY: JJ	SHEET NO.: 5 OF 6

VICINITY MAP
SCALE: 1" = 1000'

R 10 W

7

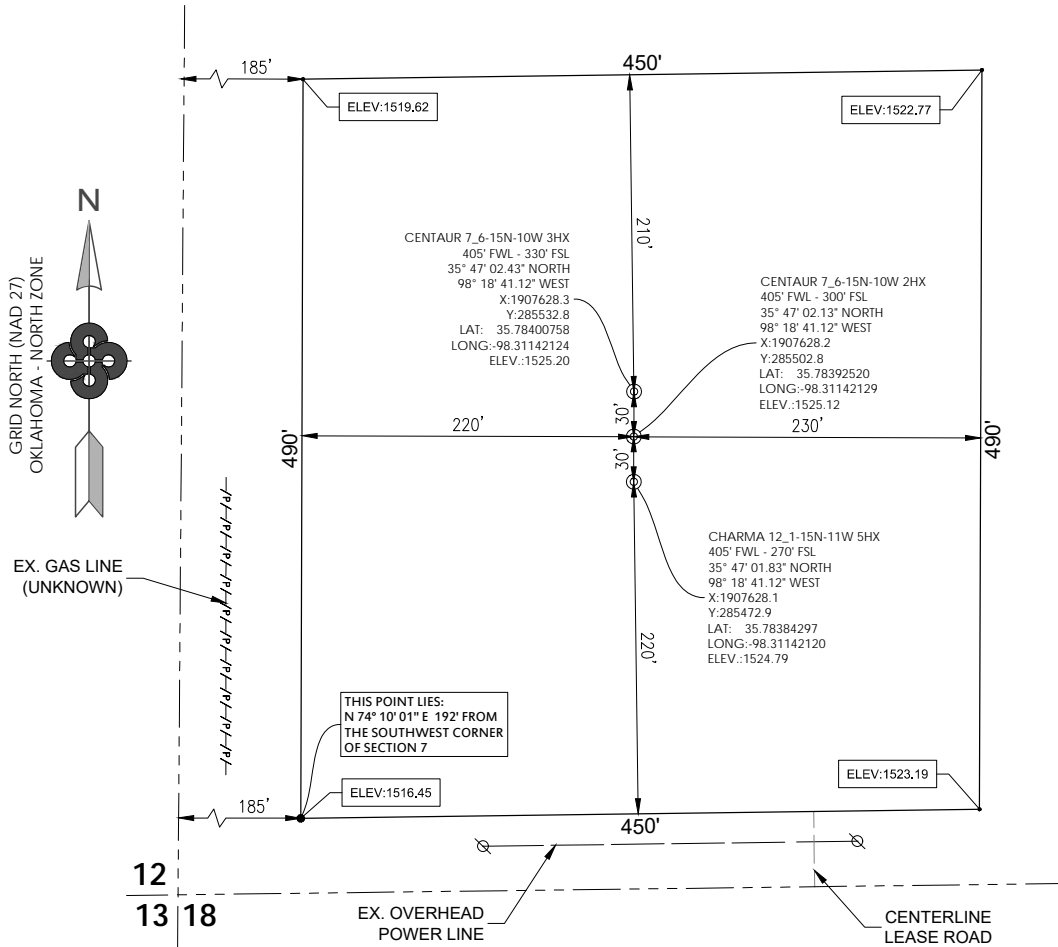
T 15 N

CENTAUR 7_6-15N-10W 2HX
405' FWL - 300' FSL
35° 47' 02.13" NORTH
98° 18' 41.12" WEST
X:1907628.2
Y:285502.8
LAT: 35.78392520
LONG:-98.31142129
ELEV.:1525.12

12
13 18

BLAINE COUNTY, OKLAHOMA

405' FWL - 300' FSL SECTION 7 TOWNSHIP 15N RANGE 10W I.M.



PROPOSED PAD
V-Door EAST

GRAPHIC SCALE IN FEET



REVISION	"CENTAUR 7_6-15N-10W 2HX"		
	PART OF THE SW/4 OF SECTION 7, T-15-N, R-10-W PROPOSED PAD SITE BLAINE COUNTY, OKLAHOMA		
	SCALE: 1" = 100'	DRAWN BY:	JJ
	PLOT DATE: 09-18-2018		SHEET NO.: 6 OF 6

devon