

API NUMBER: 011 24248

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

Approval Date: 12/08/2020
Expiration Date: 06/08/2022

Multi Unit Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Section: 21 Township: 15N Range: 10W County: BLAINE

SPOT LOCATION: ☐ NE ☐ SE ☐ SE ☐ SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 345 2453

Lease Name: DICKSON 21_16-15N-10W Well No: 3HX Well will be 345 feet from nearest unit or lease boundary.

Operator Name: DEVON ENERGY PRODUCTION CO LP Telephone: 4052353611; 4052353611; OTC/OCC Number: 20751 0

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

DELMA SUE LANDRETH, TRUSTEE OF THE LANDRETH
REVOCABLE TRUST
RT. 2 BOX 124
WATONGA OK 73772

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

	Name	Code	Depth
1	MISSISSIPPIAN	359MSSP	9908
2	MISSISSIPPI LIME	351MSSLM	10500
3	KINDERHOOK	351KDRK	11000
4	WOODFORD	319WDFD	11493

Spacing Orders: 654955
646869
715458

Location Exception Orders: 715464

Increased Density Orders: 715460
715459

Pending CD Numbers: No Pending

Working interest owners' notified: ***

Special Orders: No Special Orders

Total Depth: 20956

Ground Elevation: 1522

Surface Casing: 600

Depth to base of Treatable Water-Bearing FM: 40

Deep surface casing has been approved

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

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 20-37456

H. (Other)

SEE MEMO

PIT 1 INFORMATION

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

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

This permit does not address the right of entry or settlement of surface damages. The duration of this permit is 18 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.

MULTI UNIT HOLE 1

Section: 16	Township: 15N	Range: 10W	Meridian: IM	Total Length: 9741
County: BLAINE				Measured Total Depth: 20956
Spot Location of End Point: NW	NW	NE	NW	True Vertical Depth: 12000
Feet From: NORTH	1/4 Section Line: 50			End Point Location from
Feet From: WEST	1/4 Section Line: 1485			Lease, Unit, or Property Line: 50

NOTES:

Category	Description
DEEP SURFACE CASING	[12/1/2020 - GC2] - 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	<p>[12/1/2020 - GC2] - OCC 165:10-3-10 REQUIRES:</p> <p>1) NOTICE SHALL BE GIVEN AT LEAST 5 BUSINESS DAYS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS ON A HORIZONTAL WELL TO OPERATORS PRODUCING WELLS WITHIN 1 MILE OF THE COMPLETION INTERVAL OF THE SUBJECT WELL. THE NOTICE TO SUCH OPERATORS SHALL CONTAIN THE INFORMATION IN FORM 6000NOO. IF THE HYDRAULIC FRACTURING OPERATIONS SCHEDULE CHANGES AFTER NOTICE HAS BEEN PROVIDED, RESULTING IN A DELAY OF OPERATIONS OF MORE THAN 5 DAYS FROM THE INITIAL NOTICE, NEW NOTICE IS REQUIRED TO BE GIVEN;</p> <p>2) NOTICE WILL BE GIVEN TO THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS. FORM 6000NHF SHALL BE USED AND IS FOUND AT THIS LINK: OCCEWEB.COM/OG/OGFORMS.HTML; AND,</p> <p>3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS IS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION OF HYDRAULIC FRACTURING OPERATIONS, FOUND AT FRACFOCUS.ORG</p>
INCREASED DENSITY - 715459	<p>[12/3/2020 - G56] - 21-15N-10W X646869 MSSLM 4 WELLS DEVON ENERGY PRODUCTION CO., L.P. 11/20/2020</p>
INCREASED DENSITY - 715460	<p>[12/3/2020 - G56] - 16-15N-10W X654955 MSSP 4 WELLS DEVON ENERGY PRODUCTION CO., L.P. 11/20/2020</p>
INTERMEDIATE CASING	[12/4/2020 - G56] - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVERPRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE MORROW SERIES
LOCATION EXCEPTION - 715464	<p>[12/3/2020 - G56] - (I.O.) 16 & 21-15N-10W X654955 MSSP, WDFD 16-15N-10W X646869 MSSLM, KDRK, WDFD 21-15N-10W X165:10-3-28(C)(2)(B) MSSP, MSSLM (DICKSON 21_16-15N-10W 3HX) MAY BE CLOSER THAN 600' TO DOPPELGANGER 4_9-15N-10W 2HX, DOPPELGANGER 4_9-15N-10W 3HX, DOPPELGANGER 4_9-15N-10W 4HX, DICKSON 16-15N-10W 1H, ROYAL 1-21H, DICKSON 21_16-15N-10W 2HX, AND DICKSON 21_16-15N-10W 4HX WELLS COMPL INT (21-15N-10W) NCT 165' FSL, NCT 0' FNL, NCT 800' FWL COMPL INT (16-15N-10W) NCT 0' FSL, NCT 165' FNL, NCT 800' FWL DEVON ENERGY PRODUCTION CO., L.P. 11/20/2020</p>
MEMO	[12/1/2020 - GC2] - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 646869	<p>[12/3/2020 - G56] - (640)(HOR) 21-15N-10W EXT OTHER EXT 643728 WDFD EST MSSLM, KDRK, OTHER COMPL INT (MSSLM, KDRK) NLT 660' FB COMPL INT (WDFD) NLT 165' FNL/FSL, NLT 330' FEL/FWL</p>
SPACING - 654955	<p>[12/3/2020 - G56] - (640)(HOR) 16-15N-10W EXT 642784 MSSP, WDFD, OTHER COMPL INT (MSSP) NCT 660' FB COMPL INT (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL</p>

This permit does not address the right of entry or settlement of surface damages. The duration of this permit is 18 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.

SPACING - 715458	[12/3/2020 - G56] - (I.O.) 16 & 21-15N-10W EST MULTIUNIT HORIZONTAL WELL X654955 MSSP, WDFD 16-15N-10W X646869 MSSLM, KDRK, WDFD 21-15N-10W (KDRK, WDFD ARE ADJACENT CSS TO MSSP, MSSLM) 50% 16-15N-10W 50% 21-15N-10W DEVON ENERGY PRODUCTION CO., L.P. 11/20/2020
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011 24248 DICKSON 21_16-15N-10W 3HX

