

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

API NUMBER: 017 25267

Approval Date: 09/07/2018

Expiration Date: 03/07/2019

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 06 Twp: 14N Rge: 9W County: CANADIAN
SPOT LOCATION: ☐ NW ☐ SE ☐ NW ☐ NW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 825 950

Lease Name: ML 6_7-14N-9W Well No: 4HX Well will be 825 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

LARRY GLENN MOORE & CHRISTINE MOORE
118621 234TH ROAD NW
CALUMET OK 73014

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN (LESS CHESTER)	10495	6	
2	MISSISSIPPIAN SOLID	10495	7	
3	WOODFORD	11138	8	
4	HUNTON	11283	9	
5			10	

Spacing Orders: 641963
485777
582003

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201805727
201805728
201805743
201805744

Special Orders:

Total Depth: 20676 Ground Elevation: 1419 Surface Casing: 650 Depth to base of Treatable Water-Bearing FM: 450

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: DOG CREEK

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

PERMIT NO: 18-35230

H. SEE MEMO

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: DOG CREEK

HORIZONTAL HOLE 1

Sec 07 Twp 14N Rge 9W County CANADIAN

Spot Location of End Point: SW SE SW SW

Feet From: SOUTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 960

Depth of Deviation: 10778

Radius of Turn: 477

Direction: 179

Total Length: 9148

Measured Total Depth: 20676

True Vertical Depth: 11283

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

Notes:

Category

Description

HYDRAULIC FRACTURING

8/21/2018 - 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

8/21/2018 - 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

8/21/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

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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.

017 25267 ML 6_7-14N-9W 4HX

Category	Description
PENDING CD - 201805727	9/4/2018 - G57 - (I.O.) 6 & 7-14N-9W EST MULTIUNIT HORIZONTAL WELL X641963 MSNLC, WDFD, HNTN 6-14N-9W X485777 MSSSD, HNTN 7-14N-9W X582003 WDFD 7-14N-9W (MSSSD, MSNLC, HNTN ARE ADJACENT COMMON SOURCES OF SUPPLY TO THE WDFD) 50% 6-14N-9W 50% 7-14N-9W DEVON ENERGY PRODUCTION COMPANY, L.P. REC 8-14-2018 (THOMAS)
PENDING CD - 201805728	9/5/2018 - G57 - (I.O.) 6 & 7-14N-9W X641963 MSNLC, WDFD, HNTN 6-14N-9W X485777 MSSSD, HNTN 7-14N-9W X582003 WDFD 7-14N-9W X165:10-3-28(C)(2)(B) WDFD (ML 6_7-14N-9W 4HX) MAY BE CLOSER THAN 600' FROM THE LOOSEN TRUST 2 & PROPOSED MULTIUNIT HORIZONTAL WELLS COMPL. INT. (6-14N-9W) NCT 150' FNL, NCT 0' FSL, NCT 660' FWL COMPL. INT. (7-14N-9W) NCT 0' FNL, NCT 150' FSL, NCT 660' FWL DEVON ENERGY PRODUCTION COMPANY, L.P. REC 8-14-2018 (THOMAS)
PENDING CD - 201805743	9/5/2018 - G57 - 6-14N-9W X641963 WDFD 3 WELLS DEVON ENERGY PRODUCTION COMPANY, L.P. REC 8-14-2018 (THOMAS)
PENDING CD - 201805744	9/5/2018 - G57 - 7-14N-9W X582003 WDFD 4 WELLS DEVON ENERGY PRODUCTION COMPANY, L.P. REC 8-14-2018 (THOMAS)
SPACING - 485777	9/4/2018 - G57 - (640) 7-14N-9W EXT 442327/197693 MSSSD, HNTN, OTHERS
SPACING - 582003	9/4/2018 - G57 - (640) 7-14N-9W EXT 523760 WDFD
SPACING - 641963	9/4/2018 - G57 - (640)(HOR) 6-14N-9W EST MSNLC, WDFD, HNTN POE TO BHL (MSNLC, HNTN) NCT 660' FB POE TO BHL (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL (COEXIST WITH SP. ORDER 285382 MSSSD, HNTN)

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OPERATOR: DEVON ENERGY PRODUCTION COMPANY, L.P.

API:017 25267

LEASE NAME: ML 6_7-14N-9W
WELL NO. 4HX
GOOD DRILL SITE: YES
CANADIAN COUNTY, STATE: OK
GROUND ELEVATION: 1419.99' GR. AT STAKE
SURFACE HOLE FOOTAGE: 950' FWL - 825' FNL
SECTION: 6 TOWNSHIP: 14N RANGE: 9W
BOTTOM HOLE: 7-T14N-R9W.I.M.
ACCESSIBILITY TO LOCATION: FROM WEST LINE
TOPOGRAPHY & VEGETATION:
LOCATION FELL IN A FIELD

DISTANCE & DIRECTION FROM HWY JCT OR TOWN:
FROM THE TOWN OF CALUMET HEAD NORTH ON CALUMET
ROAD ±7.5MI TO 234TH ST, HEAD WEST ±5.0MI TO
MAYBERRY ROAD, HEAD NORTH ±0.9MI TO A LEASE ROAD
TO THE EAST, HEAD EAST ±0.2MI, PAD SITE IS TO THE SOUTH.

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.

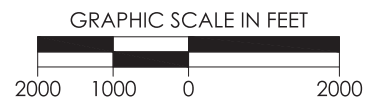
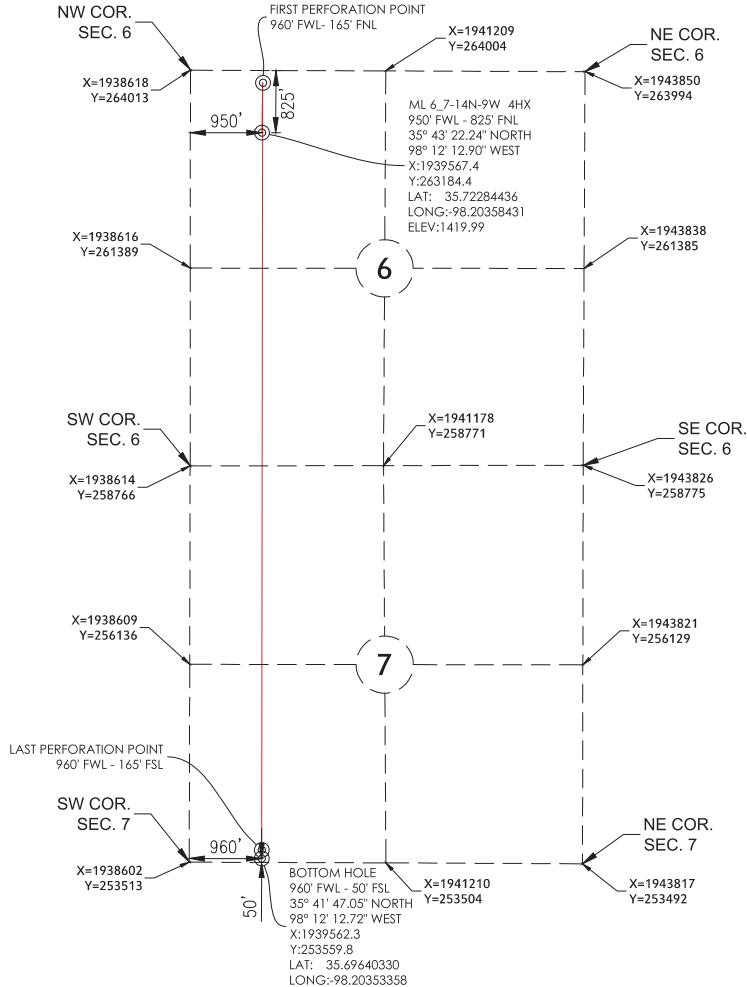



CANADIAN COUNTY, OKLAHOMA
950' FWL - 825' FNL SECTION 6 TOWNSHIP 14N RANGE 9W I.M.

SURFACE HOLE DATA
STATE PLANE COORDINATES:
ZONE: OK-NORTH NAD27
X: 1939567.4
Y: 263184.4
GPS DATUM: NAD27
LAT: 35.72284436
LONG: -98.20358431
STATE PLANE COORDINATES:
ZONE: OK-NORTH NAD83
X: 1907968.3
Y: 263208.2
GPS DATUM: NAD83
LAT: 35.72288986
LONG: -98.20392299

BOTTOM HOLE DATA
STATE PLANE COORDINATES:
ZONE: OK-NORTH NAD27
X: 1939562.3
Y: 253559.8
GPS DATUM: NAD27
LAT: 35.69640330
LONG: -98.20353358
STATE PLANE COORDINATES:
ZONE: OK-NORTH NAD83
X: 1907963.3
Y: 253583.6
GPS DATUM: NAD83
LAT: 35.69644955
LONG: -98.20387177

BOTTOM HOLE
INFORMATION PROVIDED
BY OPERATOR LISTED.



REVISION		"ML 6_7-14N-9W 4HX"		
		PART OF THE NW/4 OF SECTION 6, T-14-N, R-9-W PROPOSED DRILL SITE CANADIAN COUNTY, OKLAHOMA		
		SCALE: 1" = 2000'		
		PLOT DATE: 08-13-2018	DRAWN BY: JJ	SHEET NO.: 1 OF 6