

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

API NUMBER: 043 23512

Approval Date: 04/26/2017
Expiration Date: 10/26/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 26 Twp: 19N Rge: 16W County: DEWEY
SPOT LOCATION: NE NE NE NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 175 200

Lease Name: COPE 23_14-19N-16W Well No: 1HX Well will be 175 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

CHARLES S. COPE
601 WOODLAWN DRIVE
YUKON OK 73099

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	9135	6	
2	WOODFORD	11190	7	
3			8	
4			9	
5			10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201701860
201701861
201701862
201701863

Special Orders:

Total Depth: 20650 Ground Elevation: 1949 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 250

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) PERMIT NO: 17-32377

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 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 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 14 Twp 19N Rge 16W County DEWEY

Spot Location of End Point: N2 N2 NE NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 660

Depth of Deviation: 9722

Radius of Turn: 477

Direction: 357

Total Length: 10179

Measured Total Depth: 20650

True Vertical Depth: 11190

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

Notes:

Category	Description
DEEP SURFACE CASING	4/5/2017 - 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	4/5/2017 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK HTTP://FRACFOCUS.ORG/ WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE
INTERMEDIATE CASING	4/5/2017 - 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	4/5/2017 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 201701860	4/7/2017 - G64 - (640)(HOR) 14-19N-16W VAC 147650 MSSSD, OTHER EXT 660028 MSSP, WDFD, OTHER POE TO BHL (MSSP) NCT 660' FB POE TO BHL (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL REC. 4-24-2017 (M. PORTER)

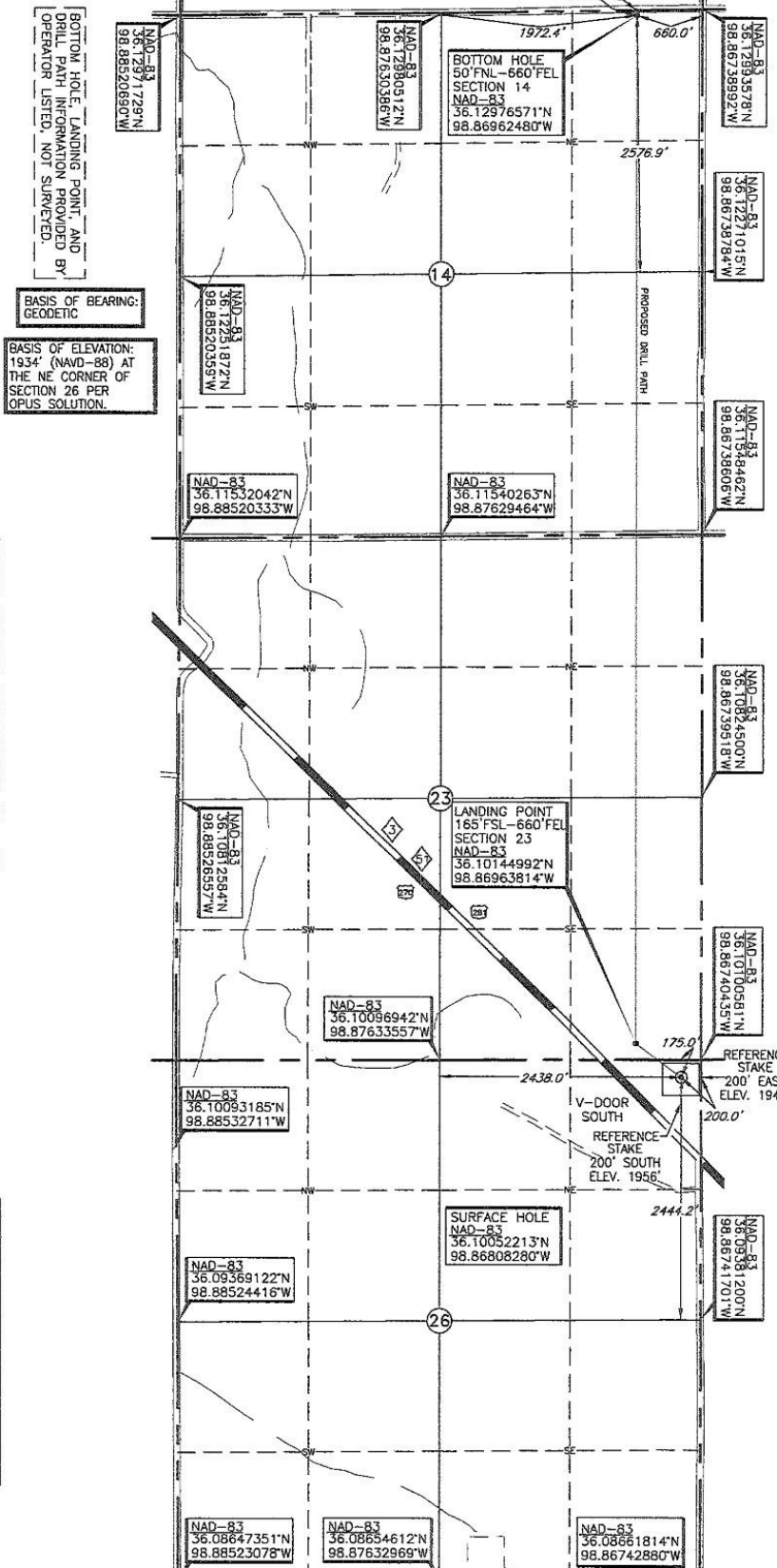
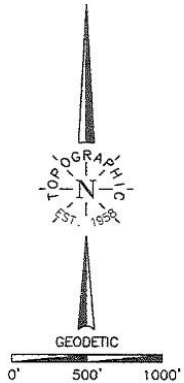
This permit does not address the right of entry or settlement of surface damages.
The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.
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Category	Description
PENDING CD - 201701861	4/7/2017 - G64 - (640)(HOR) 23-19N-16W VAC 100047 CSTR VAC 631934 MSSSD EXT 648677 MSSP, WDFD EST OTHER POE TO BHL (MSSP) NCT 660' FB POE TO BHL (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL REC. 4-24-2017 (M. PORTER)
PENDING CD - 201701862	4/7/2017 - G64 - (I.O.) 14 & 23-19N-16W X201701860 MSSP, WDFD 14-19N-16W X201701861 MSSP, WDFD 23-19N-16W COMPL. INT. (23-19N-16W) NCT 165' FSL, NCT 0' FNL, NCT 330' FEL COMPL. INT. (14-19N-16W) NCT 0' FSL, NCT 165' FNL, NCT 330' FEL NO OP. NAMED HEARING 4-24-2017 DEVON ENERGY PRODUCTION COMPANY, L.P. REC. 4-24-2017 (M. PORTER)
PENDING CD - 201701863	4/7/2017 - G64 - (I.O.) 14 & 23-19N-16W EST MULTIUNIT HORIZONTAL WELL X201701860 MSSP, WDFD 14-19N-16W X201701861 MSSP, WDFD 23-19N-16W (WDFD ASSOCIATED COMMON SOURCE OF SUPPLY TO MSSP) 50% 14-19N-16W 50% 23-19N-16W DEVON ENERGY PRODUCTION COMPANY, L.P. REC. 4-24-2017 (M. PORTER)

This permit does not address the right of entry or settlement of surface damages.
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API: 043 23512

DEWEY County, Oklahoma
175° FNL - 200° FEL Section 26 Township 19N Range 16W I.M.



BOTTOM HOLE, LANDING POINT, AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED. NOT SURVEYED.

BASIS OF BEARING: GEODETIC

BASIS OF ELEVATION: 1934 (NAD-88) AT THE NE CORNER OF SECTION 26 PER OPUS SOLUTION.

Operator: DEVON ENERGY PRODUCTION CO., LP

Lease Name: COPE 23, 14-19N-16W

Topography & Vegetation: Location fall in sloped brushy posture

Good Drill Site? Fair

Best Accessibility to Location: From South of US Hwy. 270-281

Distance & Direction from Hwy 1st or Town: From Sealing, OK, go ±4.0 mi. SE on US Hwy. 281 to the approximate Northeast Corner of Section 26, T19N-R16W

Reference Stakes Set: Ref. Stake 200' South Elev. 1956', 200' East Elev. 1940'

Well No.: 1HX

ELEVATION: 1949' Gr. at Stake (NAD-88)

NOTE: The information shown herein is for construction purposes ONLY.

Date of Drawing: Oct. 24, 2016
Invoice # 266021 Date Staked: Sep. 29, 2016 JGW

(This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy)

DATUM: NAD-83
LAT: 36.10052213° N
LONG: 98.86808280° W
ZONE: NORTH

CERTIFICATE:
I, Thomas L. Howell an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein

Thomas L. Howell
Oklahoma Lic. No. 1433

