

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

API NUMBER: 043 23515

Approval Date: 05/16/2017
Expiration Date: 11/16/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 15 Twp: 19N Rge: 16W County: DEWEY
SPOT LOCATION: SE SW SE SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 253 1800

Lease Name: PAMELA 15-19N-16W Well No: 1H Well will be 253 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

2L FARMS
61650 N. 2300 ROAD
SEILING OK 73663

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	8992	6	
2	WOODFORD	11102	7	
3	HUNTON	11140	8	
4			9	
5			10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201701864
201701865

Special Orders:

Total Depth: 15806 Ground Elevation: 1857 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 210

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

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 BED AQUIFER

Pit Location Formation: RUSH SPRINGS

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 17-32378
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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: RUSH SPRINGS

HORIZONTAL HOLE 1

Sec 15 Twp 19N Rge 16W County DEWEY

Spot Location of End Point: NW NE NE NW

Feet From: NORTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 2200

Depth of Deviation: 10572

Radius of Turn: 477

Direction: 5

Total Length: 4485

Measured Total Depth: 15806

True Vertical Depth: 11140

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

Notes:

Category

Description

COMPLETION INTERVAL

5/15/2017 - G75 - COMPLETION INTERVAL FOR WOODFORD WILL BE GREATER THAN 165' FNL AND FSL, GREATER THAN 330' FEL AND FWL PER OPERATOR

DEEP SURFACE CASING

5/8/2017 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

5/8/2017 - 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/](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

5/8/2017 - 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

5/8/2017 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

PENDING CD - 201701864

5/15/2017 - G75 - (640)(HOR) 15-19N-16W
VAC 147650 CSTR, MSSSD, HNTN
EXT 649009 MSSP
EST WDFD, HNTN
POE TO BHL (MSSP, HNTN) 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.

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.

Category

PENDING CD - 201701865

Description

5/15/2017 - G75 - (I.O.) 15-19N-16W
X201701864 MSSP, HNTN
COMPL. INT. NCT 165' TO SL, NCT 165' TO NL, NCT 1320' TO WL
NO OP. NAMED
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.
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.



300 Pointe Parkway Blvd.
Yukon, OK 73099
405.787.6270 f 405.787.6276 f
www.craffontull.com
Craffon Tull
SURVEYING CA973(P)(L)S E-OP. 6/30/18

OPERATOR: DEVON ENERGY PRODUCTION COMPANY, L.P.

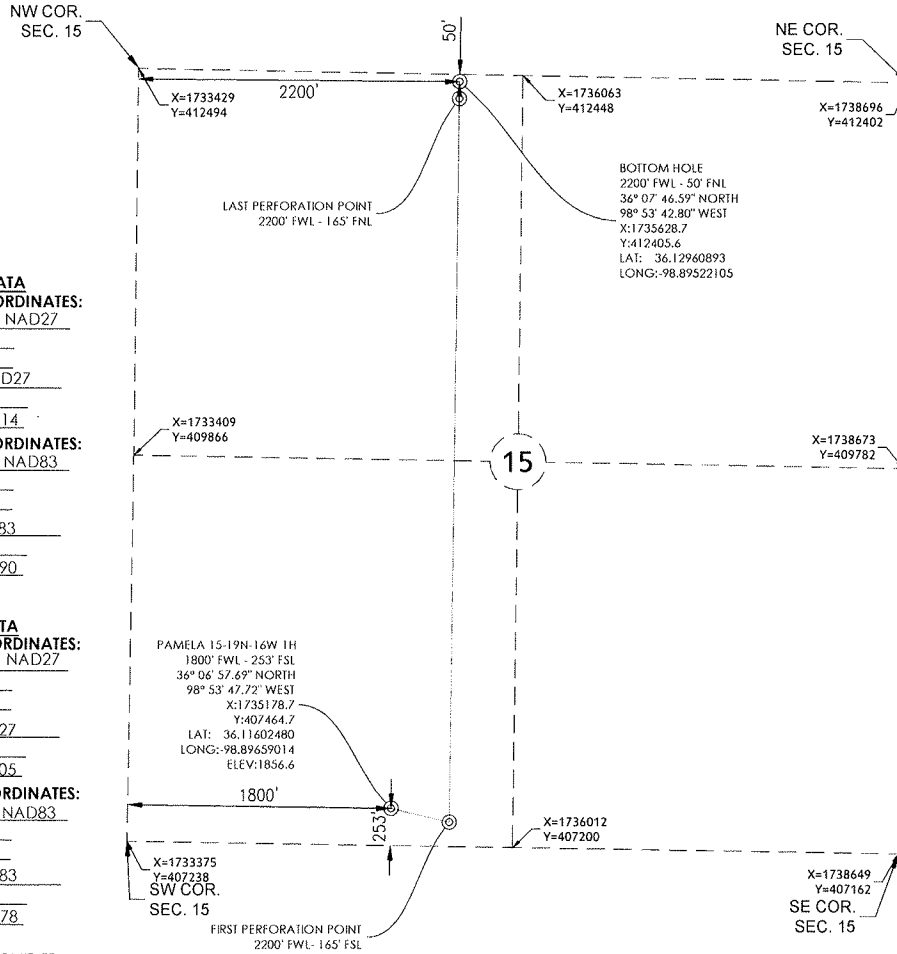
LEASE NAME: PAMELA 15-19N-16W
WELL NO. 1H
GOOD DRILL SITE: YES
DEWEY COUNTY, STATE: OK
GROUND ELEVATION: 1856.6' GR. AT STAKE
SURFACE HOLE FOOTAGE: 1800' FWL - 253' FSL
SECTION: 15 TOWNSHIP: 19N RANGE: R16W
BOTTOM HOLE: 15-19N-R16W-I.M.
ACCESSIBILITY TO LOCATION: FROM WEST LINE
TOPOGRAPHY & VEGETATION: _____
LOCATION FELL IN A FIELD _____

DISTANCE & DIRECTION FROM HWY JCT OR TOWN:
AT THE JCT. OF US270 AND SH 51, SOUTHERLY ALONG
US270 1.75MI ± TO N2300 RD. SOUTH 0.25MI ±, SITE IS
LOCATED EAST OF ROAD

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 CRAFFON 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.

API 043-23515

DEWEY COUNTY, OKLAHOMA
1800' FWL - 253' FSL SECTION 15 TOWNSHIP 19N RANGE 16W I.M.



SURFACE HOLE DATA
STATE PLANE COORDINATES:
ZONE: OK-NORTH NAD27
X: 1735178.7
Y: 407464.7
GPS DATUM: NAD27
LAT: 36.11602480
LONG: -98.89659014
STATE PLANE COORDINATES:
ZONE: OK-NORTH NAD83
X: 1703575.3
Y: 407491.1
GPS DATUM: NAD83
LAT: 36.11606541
LONG: -98.89696190

BOTTOM HOLE DATA
STATE PLANE COORDINATES:
ZONE: OK-NORTH NAD27
X: 1735628.7
Y: 412405.6
GPS DATUM: NAD27
LAT: 36.12960893
LONG: -98.89522105

STATE PLANE COORDINATES:
ZONE: OK-NORTH NAD83
X: 1704025.3
Y: 412432.0
GPS DATUM: NAD83
LAT: 36.12964929
LONG: -98.89559278
BOTTOM HOLE INFORMATION PROVIDED BY OPERATOR LISTED.



REVISION		"PAMELA 15-19N-16W 1H"		
R1	SURVEY COORDINATE TABLE	PART OF THE SW/4 OF SECTION 15, T-19-N, R-16-W PROPOSED DRILL SITE DEWEY COUNTY, OKLAHOMA		
SCALE: 1" = 1000'		PLOT DATE: 04-12-2017		DRAWN BY: DW SHEET NO.: 1 OF 6