

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

API NUMBER: 087 22174 C

Approval Date: 08/14/2018
Expiration Date: 02/14/2019

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 11 Twp: 6N Rge: 2W County: MCCLAIN
SPOT LOCATION: SE SW SE SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 245 1680

Lease Name: STARK 6N 2W 11 Well No: 1H Well will be 245 feet from nearest unit or lease boundary.

Operator Name: BP AMERICA PRODUCTION COMPANY Telephone: 8326194857; 2813666 OTC/OCC Number: 1640 0

BP AMERICA PRODUCTION COMPANY
1100 N BROADWAY AVE STE 200
OKLAHOMA CITY, OK 73103-4937

JACK L. JONES
P.O. BOX 10
WAYNE OK 73095

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

Name	Depth	Name	Depth
1 WOODFORD	7500	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201805312

Special Orders:

Total Depth: 12500 Ground Elevation: 1051 **Surface Casing: 740** Depth to base of Treatable Water-Bearing FM: 490

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

PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 5000 Average: 3000

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 ALLUVIAL

Pit Location Formation: ALLUVIUM

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-34743

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 ALLUVIAL

Pit Location Formation: ALLUVIUM

HORIZONTAL HOLE 1

Sec 11 Twp 6N Rge 2W County MCCLAIN

Spot Location of End Point: NW NW NW NE

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 1

Depth of Deviation: 6945

Radius of Turn: 382

Direction: 10

Total Length: 4955

Measured Total Depth: 12500

True Vertical Depth: 7500

End Point Location from Lease,
Unit, or Property Line: 0

Notes:

Category

Description

COMPLETION INTERVAL

8/14/2018 - G57 - THE COMPLETION INTERVAL (FIRST PERFORATION TO LAST PERFORATION OR POINT OF ENTRY TO TERMINUS) FOR THE WOODFORD WILL BE GREATER THAN 165' FNL & FSL; GREATER THAN 330' FEL & FWL OF 11-6N-2W PER PENDING CD #201805312 PER OPERATOR

HYDRAULIC FRACTURING

8/10/2018 - 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

MEMO

8/10/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS (REQUIRED - LAKE PURCELL), PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201805312

8/13/2018 - G57 - (640)(HOR) 11-6N-2W
EXT 660243 WDFD
POE TO BHL NLT 165' FNL & FSL, NLT 330' FEL & FWL
REC 8-10-2018 (FOREMAN)

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.



Well Location Plat

Sec. 11-6N-2W I.M.

Operator: BP AMERICA PRODUCTION COMPANY
 Lease Name and No.: STARK 6N 2W 11 1H
 Footage: 245' FSL - 1680' FWL Gr. Elevation: 1051'
 Section: 11 Township: 6N Range: 2W I.M.
 County: McClain State of Oklahoma
 Terrain at Loc.: Location fell in a native grass pasture.

API:087 22174



All bearings shown are grid bearings.



1" = 1000'

GPS DATUM
 NAD 83
 NAD 27

OK SOUTH ZONE

Surface Hole Loc.:
 Lat: 35°00'04.81"N
 Lon: 97°22'59.06"W
 Lon: 35.00133728
 Lon: -97.38307317
 X: 2153259
 Y: 607596

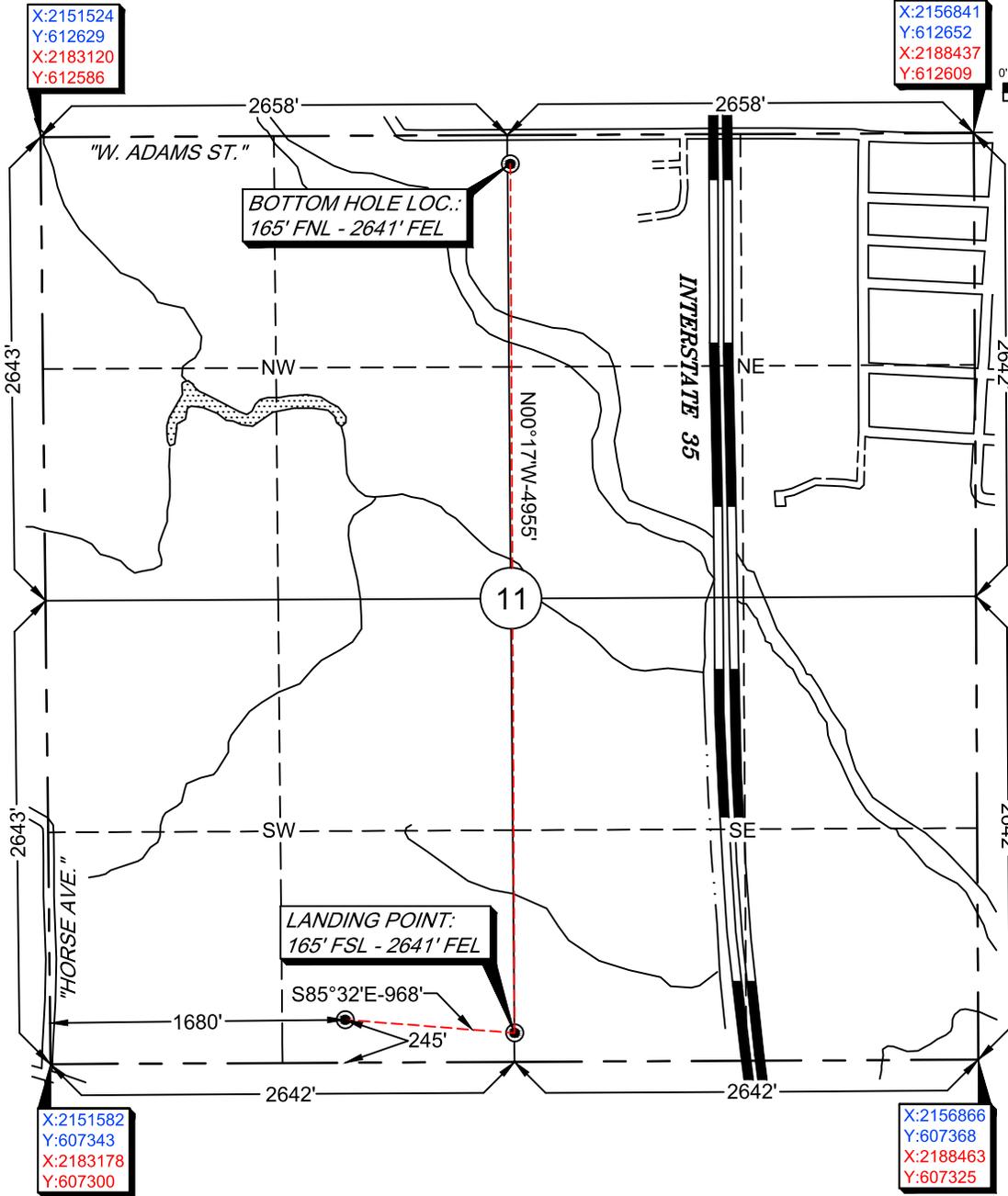
Surface Hole Loc.:
 Lat: 35°00'04.56"N
 Lon: 97°22'57.96"W
 Lat: 35.00126536
 Lon: -97.38276674
 X: 2184855
 Y: 607553

Landing Point:
 Lat: 35°00'04.01"N
 Lon: 97°22'47.46"W
 Lat: 35.00111397
 Lon: -97.37985111
 X: 2154225
 Y: 607521

Landing Point:
 Lat: 35°00'03.75"N
 Lon: 97°22'46.36"W
 Lat: 35.00104200
 Lon: -97.37954475
 X: 2185821
 Y: 607478

Bottom Hole Loc.:
 Lat: 35°00'53.02"N
 Lon: 97°22'47.39"W
 Lat: 35.01472784
 Lon: -97.37983068
 X: 2154200
 Y: 612476

Bottom Hole Loc.:
 Lat: 35°00'52.76"N
 Lon: 97°22'46.29"W
 Lat: 35.01465615
 Lon: -97.37952414
 X: 2185797
 Y: 612433

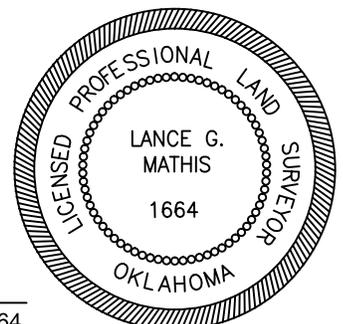


-Please note that this location was staked on the ground under the supervision of a Licensed Professional Land Surveyor, but the accuracy of this survey is not guaranteed. Please contact Arkoma Surveying and Mapping promptly if any inconsistency is determined. GPS data is observed from RTK - GPS.
 -NOTE: 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.

Survey and plat by:
Arkoma Surveying and Mapping, PLLC
 P.O. Box 238 Wilburton, OK 74578
 Ph. 918-465-5711 Fax 918-465-5030
 Certificate of Authorization No. 5348
 Expires June 30, 2018

Certification:
 This is to certify that this Well Location Plat represents the results of a survey made on the ground performed under the supervision of the undersigned.

Lance G. Mathis
 LANCE G. MATHIS
 06/11/18
 OK LPLS 1664



Invoice #7865-A-A
 Date Staked: 06/04/18 By: R.L.
 Date Drawn: 06/06/18 By: C.K.