

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

API NUMBER: 087 22128

Approval Date: 04/20/2018  
Expiration Date: 10/20/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 21 Twp: 6N Rge: 2W County: MCCLAIN  
SPOT LOCATION:  NW  NE  NW  NW FEET FROM QUARTER: FROM NORTH FROM WEST  
SECTION LINES: 322 872

Lease Name: BLOODWORTH 6N 2W 20 Well No: 1HX Well will be 322 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

ROBERT W. DOW & BEVERLY J. DOW  
1129 WHISPERING PINES DR.  
NORMAN OK 73072

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

Name	Depth	Name	Depth
1 WOODFORD	7625	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201802606

Special Orders:

Total Depth: 13000 Ground Elevation: 1150 **Surface Casing: 540** Depth to base of Treatable Water-Bearing FM: 290

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 BED AQUIFER

Pit Location Formation: PURCELL

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-34342  
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: PURCELL

HORIZONTAL HOLE 1

Sec 20 Twp 6N Rge 2W County MCCLAIN

Spot Location of End Point: SW SE SE SE

Feet From: SOUTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 528

Depth of Deviation: 7291

Radius of Turn: 477

Direction: 190

Total Length: 4960

Measured Total Depth: 13000

True Vertical Depth: 7625

End Point Location from Lease,  
Unit, or Property Line: 165

Notes:

Category

Description

COMPLETION INTERVAL

4/20/2018 - G75 - COMPLETION INTERVAL FOR WOODFORD WILL BE GREATER THAN 165' FNL AND FSL, GREATER THAN 330' FEL AND FWL OF 20-6N-2W PER OPERATOR

HYDRAULIC FRACTURING

4/20/2018 - 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](http://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](http://FRACFOCUS.ORG)

MEMO

4/20/2018 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

PENDING CD - 201802606

4/20/2018 - G75 - (E.O.)(640)(HOR) 20-6N-2W  
VAC 378550 WDFD  
EXT 666114 WDFD  
COMPL. INT. NLT 165' FNL & FSL, NLT 330' FEL & FWL  
BP AMERICA PROD. CO.  
REC 4-17-2018 (NORRIS)

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

S.H.L. Sec. 21-6N-2W I.M.  
B.H.L. Sec. 20-6N-2W I.M.

Operator: BP AMERICA PRODUCTION COMPANY  
Lease Name and No.: BLOODWORTH 6N 2W 20 1HX  
Footage: 322' FNL - 872' FWL Gr. Elevation: 1150'  
Section: 21 Township: 6N Range: 2W I.M.  
County: McClain State of Oklahoma  
Terrain at Loc.: Location fell in pasture with a fence at the SW side of location & an aerial power line running along East side of location.

API 087-22128



All bearings shown are grid bearings.



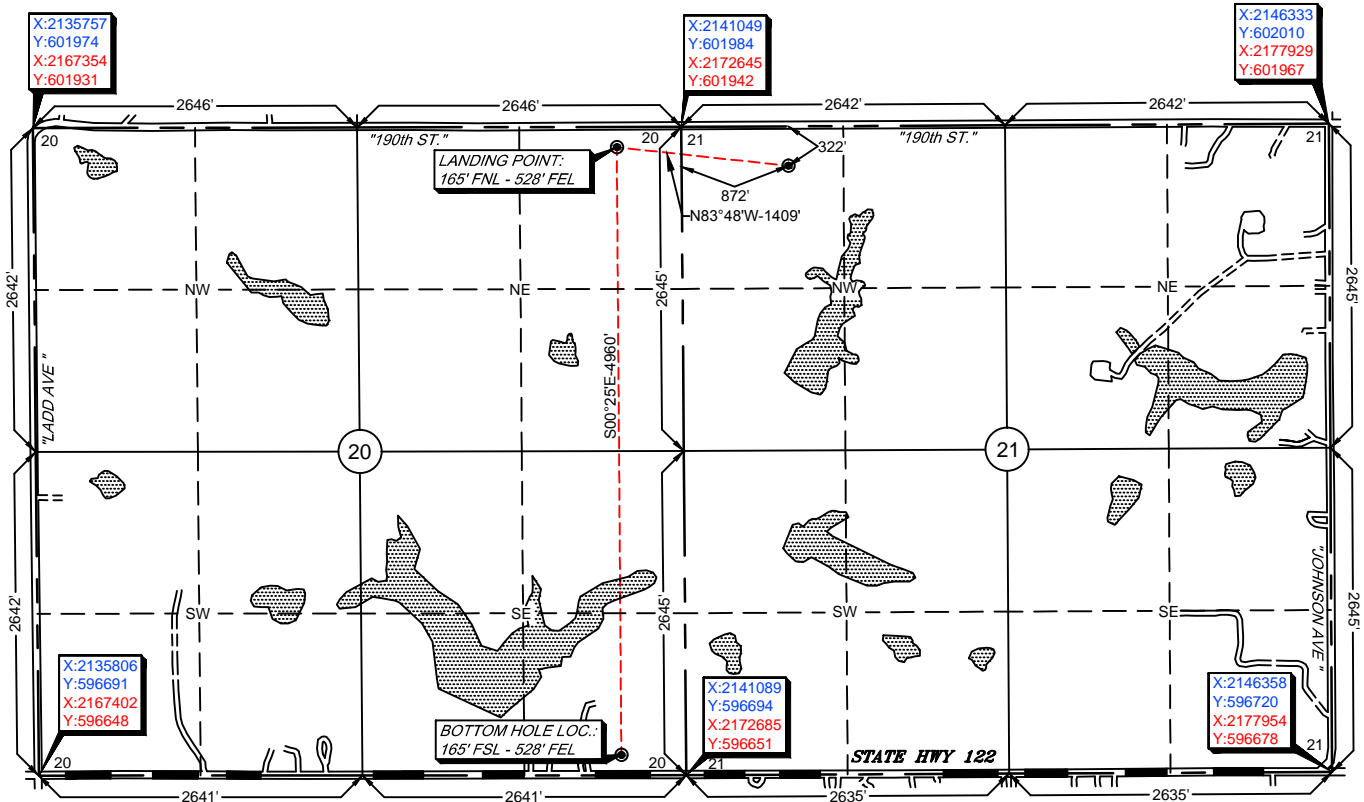
1" = 1500'

GPS DATUM

NAD 83

NAD 27

OK SOUTH ZONE



Surface Hole Loc.:  
Lat: 34°59'06.83"N  
Lon: 97°25'15.74"W  
Lat: 34.98522977  
Lon: -97.42103968  
X: 2141923  
Y: 601666

Surface Hole Loc.:  
Lat: 34°59'06.57"N  
Lon: 97°25'14.64"W  
Lat: 34.98515795  
Lon: -97.42073271  
X: 2173519  
Y: 601623

Landing Point:  
Lat: 34°59'08.41"N  
Lon: 97°25'32.57"W  
Lat: 34.98566973  
Lon: -97.42571291  
X: 2140522  
Y: 601818

Landing Point:  
Lat: 34°59'08.15"N  
Lon: 97°25'31.46"W  
Lat: 34.98559796  
Lon: -97.42540583  
X: 2172118  
Y: 601776

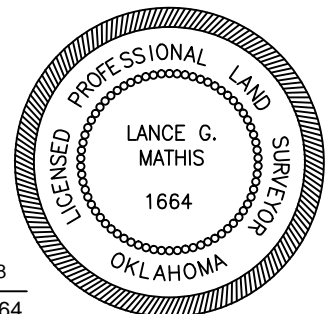
Bottom Hole Loc.:  
Lat: 34°58'19.36"N  
Lon: 97°25'32.46"W  
Lat: 34.97204321  
Lon: -97.42568223  
X: 2140559  
Y: 596859

Bottom Hole Loc.:  
Lat: 34°58'19.10"N  
Lon: 97°25'31.35"W  
Lat: 34.97197107  
Lon: -97.42537521  
X: 2172155  
Y: 596816

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.



03/12/18

LANCE G. MATHIS

OK LPLS 1664

Invoice #7669-B  
Date Staked: 03/06/18 By: J.L.  
Date Drawn: 03/08/18 By: K.B.