

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

API NUMBER: 087 22131

Approval Date: 04/26/2018

Expiration Date: 10/26/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 21 Twp: 6N Rge: 2W

County: MCCLAIN

SPOT LOCATION: SW NE NW NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 347 855

Lease Name: BRANDT 6N 2W 17

Well No: 1HX

Well will be 347 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-HUNTON	7700	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 602578
602579
607515

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201802800
201802801
201802802

Special Orders:

Total Depth: 18000

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

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: 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

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

PERMIT NO: 18-34341

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 08 Twp 6N Rge 2W County MCCLAIN

Spot Location of End Point: NW NE NE NE

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 528

Depth of Deviation: 7261

Radius of Turn: 382

Direction: 350

Total Length: 10139

Measured Total Depth: 18000

True Vertical Depth: 7700

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

Notes:

Category

Description

HYDRAULIC FRACTURING

4/19/2018 - 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

4/19/2018 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

PENDING CD - 201802800

4/23/2018 - G75 - (E.O.) 17 & 8-6N-2W
EST MULTIUNIT HORIZONTAL WELL
X602579/607515 WDHN 17-6N-2W
X602578 WDHN 8-6N-2W
50% 17-6N-2W
50% 8-6N-2W
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.

Category	Description
PENDING CD - 201802801	4/23/2018 - G75 - (E.O.) 17-6N-2W X602579/607515 WDHN 1 WELL BP AMERICA PROD. CO. REC 4-17-2018 (NORRIS)
PENDING CD - 201802802	4/23/2018 - G75 - (E.O.) 17 & 8-6N-2W X602579/607515 WDHN 17-6N-2W X602578 WDHN 8-6N-2W COMPL. INT. (17-6N-2W) NCT 165' FSL, NCT 0' FNL, NCT 330' FEL COMPL. INT. (8-6N-2W) NCT 0' FSL, NCT 165' FNL, NCT 330' FEL BP AMERICA PROD. CO. REC 4-17-2018 (NORRIS)
SPACING - 602578	4/20/2018 - G75 - (640)(HOR) 8-6N-2W EST WDHN POE TO BHL NLT 660' FB (COEXIST WITH PRODUCING NON-HORIZONTAL SPACING UNITS)
SPACING - 602579	4/20/2018 - G75 - (640)(HOR) 17-6N-2W EST WDHN POE TO BHL NCT 660' FB (COEXIST PRODUCING NON-HORIZONTAL SPACING UNITS)
SPACING - 607515	4/20/2018 - G75 - NPT 602579 TO INDICATE RICHARD GRIMES APPEARED FOR APPLICANT CHARTER OAK PROD. CO., LLC & CHANGING PARAGRAPH 5.1 FROM 8-6N-2W TO 17-6N-2W

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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.



Well Location Plat

S.H.L. Sec. 21-6N-2W I.M.
B.H.L. Sec. 8-6N-2W I.M.

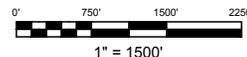
Operator: BP AMERICA PRODUCTION COMPANY
Lease Name and No.: BRANDT 6N 2W 17 1HX
Footage: 347' FNL - 855' FWL Gr. Elevation: 1150'
Section: 21 Township: 6N Range: 2W I.M.
County: McClain State of Oklahoma

API 087-22131

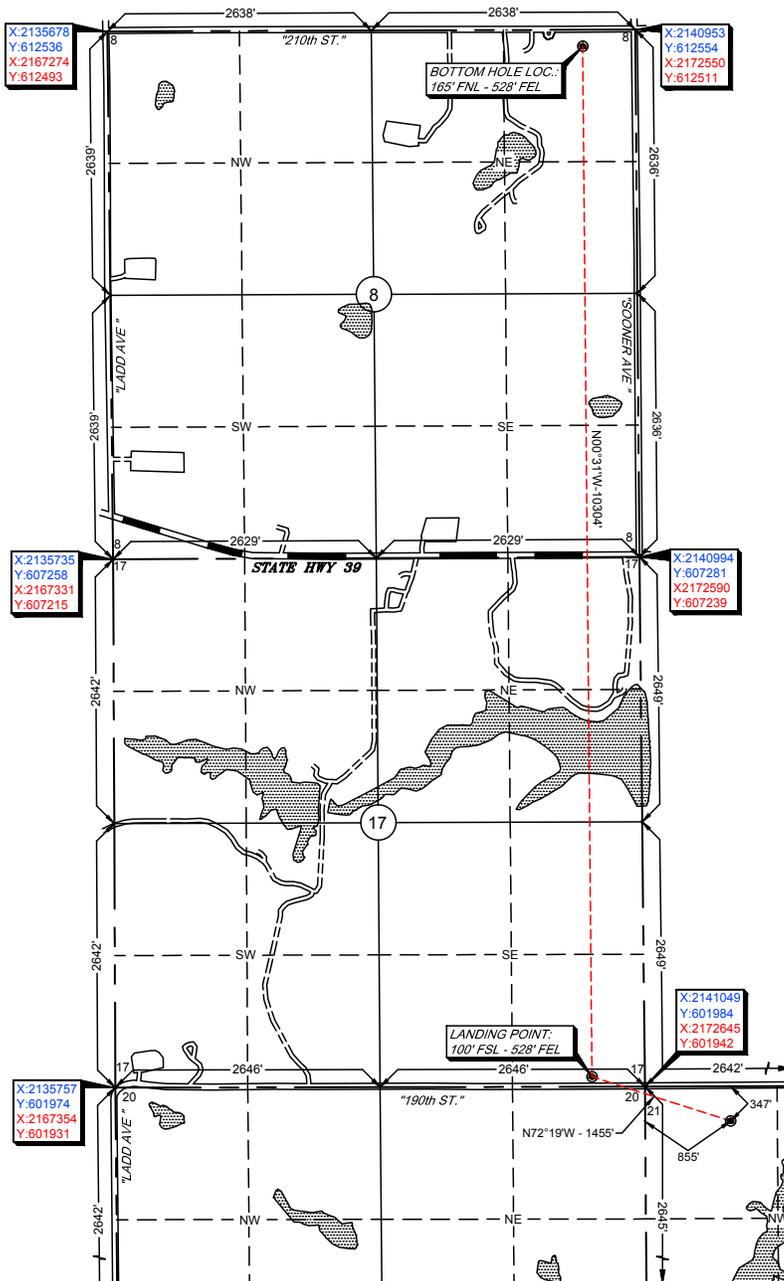
Terrain at Loc.: Location fell in pasture with a fence at the SW side of location & an aerial power line running along East side of location.



All bearings shown are grid bearings.



1" = 1500'



GPS DATUM
NAD 83
NAD 27

OK SOUTH ZONE

Surface Hole Loc.:
Lat: 34°59'06.58"N
Lon: 97°25'15.95"W
Lat: 34.98516151
Lon: -97.42109584
X: 2141906
Y: 601641

Surface Hole Loc.:
Lat: 34°59'06.32"N
Lon: 97°25'14.84"W
Lat: 34.98508967
Lon: -97.42078887
X: 2173502
Y: 601598

Landing Point:
Lat: 34°59'11.03"N
Lon: 97°25'32.58"W
Lat: 34.98639784
Lon: -97.42571554
X: 2140520
Y: 602083

Landing Point:
Lat: 34°59'10.77"N
Lon: 97°25'31.47"W
Lat: 34.98632611
Lon: -97.42540846
X: 2172116
Y: 602041

Bottom Hole Loc.:
Lat: 35°00'52.95"N
Lon: 97°25'32.99"W
Lat: 35.01470936
Lon: -97.42583042
X: 2140427
Y: 612387

Bottom Hole Loc.:
Lat: 35°00'52.70"N
Lon: 97°25'31.88"W
Lat: 35.01463829
Lon: -97.42552296
X: 2172023
Y: 612345

-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.

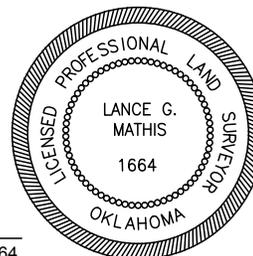
-NOTE: X and Y data shown hereon for Section Corners may NOT have been surveyed on-the-ground, and further, does NOT represent a true Boundary Survey. -Quarter Section distances may be assumed from a Government Survey Plat or assumed at a proportionate distance from opposing section corners, or occupation 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
OK LPLS 1664



Invoice #7669-A-A
Date Staked: N/A By:
Date Drawn: 04/04/18 By: K.B.