

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

API NUMBER: 087 22183

Approval Date: 10/23/2018
Expiration Date: 04/23/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 07 Twp: 5N Rge: 1W County: MCCLAIN
SPOT LOCATION: NE NE NE NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 264 253

Lease Name: AUTREY 5N 1W 5 Well No: 1HX Well will be 253 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

CONTINENTAL GATEWAY AUTHORITY
121 NORTH 2ND STREET
PURCELL OK 73080

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

Name	Depth	Name	Depth
1 WOODFORD	6626	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 639336
626865

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201807350
201807353

Special Orders:

Total Depth: 17100

Ground Elevation: 1096

Surface Casing: 380

Depth to base of Treatable Water-Bearing FM: 130

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-35456
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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 32 Twp 6N Rge 1W County MCCLAIN

Spot Location of End Point: NE NW NW NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 528

Depth of Deviation: 5945

Radius of Turn: 573

Direction: 5

Total Length: 10255

Measured Total Depth: 17100

True Vertical Depth: 7100

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

Notes:

Category

Description

HYDRAULIC FRACTURING

10/22/2018 - GA8 - 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

10/22/2018 - GA8 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

PENDING CD - 201807350

10/23/2018 - G75 - (E.O.) 5-5N-1W & 32-6N-1W
EST MULTIUNIT HORIZONTAL WELL
X626865 WDFD 5-5N-1W
X639336 WDFD 32-6N-1W
50% 5-5N-1W
50% 32-6N-1W
BP AMERICA PROD. CO.
REC 10-23-2018 (MILLER)

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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.

Category	Description
PENDING CD - 201807353	10/23/2018 - G75 - (E.O.) X626865 WDFD 5-5N-1W X639336 WDFD 32-6N-1W SHL (7-5N-1W) 264' FNL, 253' FEL COMPL. INT. (5-5N-1W) NCT 165' FSL, NCT 0' FNL, NCT 330' FWL COMPL. INT. (32-6N-1W) NCT 0' FSL, NCT 165' FNL, NCT 330' FWL BP AMERICA PROD. CO. REC 10-23-2018 (MILLER)
SPACING - 626865	10/23/2018 - G75 - (640)(HOR) 5-5N-1W EST WDFD, OTHERS POE TO BHL NCT 330' FB
SPACING - 639336	10/23/2018 - G75 - (640)(HOR) 32-6N-1W EST WDFD, OTHER COMPL. INT. NCT 330' FB

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

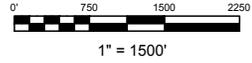
S.H.L. Sec. 7-5N-1W I.M.
B.H.L. Sec. 32-6N-1W I.M.

Operator: BP AMERICA PRODUCTION COMPANY
Lease Name and No.: AUTREY 5N1W 5 1HX
Footage: 264' FNL - 253' FEL Gr. Elevation: 1096'
Section: 7 Township: 5N Range: 1W I.M.
County: McClain State of Oklahoma
Terrain at Loc.: Location fell in an open wheat field, South and West of an existing power line, with increasing elevation to the South.

API 087-22183



All bearings shown are grid bearings.



GPS DATUM
NAD 83
NAD 27
OK SOUTH ZONE

Surface Hole Loc.:
Lat: 34°55'37.98"N
Lon: 97°20'13.15"W
Lat: 34.92721553
Lon: -97.33698544
X: 2167239
Y: 580707

Surface Hole Loc.:
Lat: 34°55'37.71"N
Lon: 97°20'12.05"W
Lat: 34.92714101
Lon: -97.33668073
X: 2198835
Y: 580664

Landing Point:
Lat: 34°55'42.19"N
Lon: 97°20'03.79"W
Lat: 34.92838541
Lon: -97.33438722
X: 2168015
Y: 581138

Landing Point:
Lat: 34°55'41.92"N
Lon: 97°20'02.70"W
Lat: 34.92831089
Lon: -97.33408255
X: 2199611
Y: 581094

Bottom Hole Loc.:
Lat: 34°57'23.63"N
Lon: 97°20'04.21"W
Lat: 34.95656461
Lon: -97.33450270
X: 2167913
Y: 591393

Bottom Hole Loc.:
Lat: 34°57'23.37"N
Lon: 97°20'03.11"W
Lat: 34.95649084
Lon: -97.33419771
X: 2199509
Y: 591350

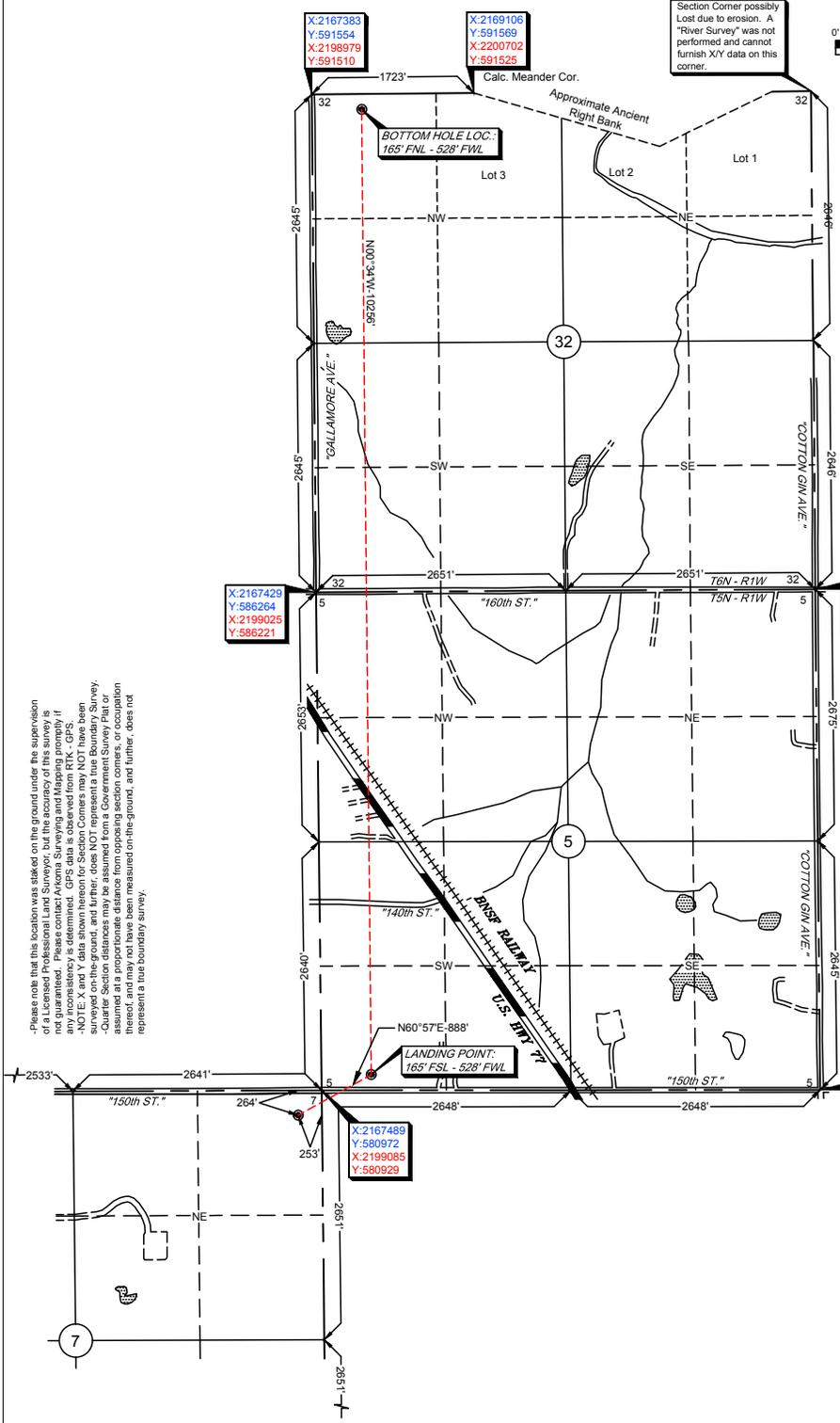
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Y:586297
X:2204327
Y:586253

X:2167383
Y:591554
X:2199379
Y:591510

X:2169106
Y:591569
X:2200702
Y:591525

X:2167429
Y:586264
X:2199025
Y:586221

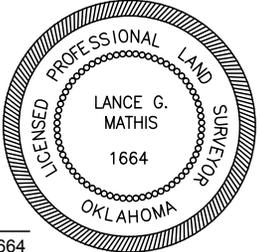
-Please note that this location was staked on the ground under the supervision of a Licensed Professional Land Surveyor, but the accuracy of this survey is not guaranteed. Please contact Arkoma Surveying and Mapping, PLLC for any questions.
-NOTE: X and Y data shown hereon for Section Corners may NOT 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 other reliable source. All bearings and distances from adjoining section corners, or occupation thereof, are not to be 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
05/01/18
OK LPLS 1664



Invoice #7785-B
Date Staked: 04/12/18 By: J.L.
Date Drawn: 04/16/18 By: C.K.