API NUMBER: 029 21341

Horizontal Hole Oil & Gas

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

Approval Date: 08/16/2016
Expiration Date: 02/16/2017

PERMIT TO DRILL

WELL LOCATION: Sec: 25 Twp: 2N Rge: 11E County: COAL

SPOT LOCATION: SW NW NE NE

FEET FROM QUARTER: FROM **NORTH** FROM **EAST**

SECTION LINES: **390** **1030**

Lease Name: QUEEN **Well No: 5-24H** **Well will be 390 feet from nearest unit or lease boundary.**

Operator Name: BP AMERICA PRODUCTION COMPANY Telephone: 2813666973; 2813666 OTC/OCC Number: 1640 0

BP AMERICA PRODUCTION COMPANY
737 N ELDRIDGE PKWY
HOUSTON, TX 77079-4411

EWING DOWNEN, TRUSTEE
RR. 1, BOX 635
COLGATE OK 74538

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

	Name	Depth		Name	Depth
1	WOODFORD	10735	6		
2			7		
3			8		
4			9		
5			10		

Spacing Orders: 530177

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201603186
201603182

Special Orders:

Total Depth: 16750 Ground Elevation: 685 **Surface Casing: 1200** Depth to base of Treatable Water-Bearing FM: 360

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

PIT 1 INFORMATION

Type of Pit System: ON SITE

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 not** located in a Hydrologically Sensitive Area.

Category of Pit: 2

Liner not required for Category: 2

Pit Location is NON HSA

Pit Location Formation: BOGGY

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

B. Solidification of pit contents.

H. PIT 2 - 20-MIL LINER REQUIRED, OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

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: ON SITE

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 not** located in a Hydrologically Sensitive Area.

Category of Pit: 3

Liner required for Category: 3

Pit Location is NON HSA

Pit Location Formation: BOGGY

HORIZONTAL HOLE 1

Sec 24 Twp 2N Rge 11E County COAL

Spot Location of End Point: NW NE NE NE

Feet From: NORTH 1/4 Section Line: 200

Feet From: EAST 1/4 Section Line: 373

Depth of Deviation: 10946

Radius of Turn: 573

Direction: 8

Total Length: 4904

Measured Total Depth: 16750

True Vertical Depth: 11600

End Point Location from Lease,
Unit, or Property Line: 200

Additional Surface Owner	Address	City, State, Zip
DONNA DOWNEN, TRUSTEE	ROUTE 1, BOX 635	COLGATE, OK 74538

Notes:

Category	Description
DEEP SURFACE CASING	8/9/2016 - 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	8/9/2016 - 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/ 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.
PENDING CD - 201603182	8/10/2016 - G75 - (E.O.) 24-2N-11E X530177 WDFD 2 WELLS BP AMERICA PROD. CO. REC. 8-15-2016 (DECKER)
PENDING CD - 201603186	8/10/2016 - G75 - (E.O.) 24-2N-11E X530177 WDFD, OTHERS COMPL. INT. NCT 165 FSL, NCT 165 FNL, NCT 330 FEL BP AMERICA PROD. CO. REC. 8-15-2016 (DECKER)
SPACING - 530177	8/10/2016 - G75 - (640) 24-2N-11E EXT 511199 WDFD, OTHERS

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. 25-2N-11E I.M.
B.H.L. Sec. 24-2N-11E I.M.

API 029-21341

Operator : BP AMERICA PRODUCTION COMPANY
Lease Name and No. : QUEEN 5-24H
Footage : 390' FNL - 1030' FEL GR. ELEVATION : 685' Good Site? YES
Section : 25 Township : 2N Range : 11E I.M.
County : Coal State of Oklahoma
Alternate Loc. : N/A
Terrain at Loc. : Location fell in timber, ±204' Northwest of a rock ledge drop-off.

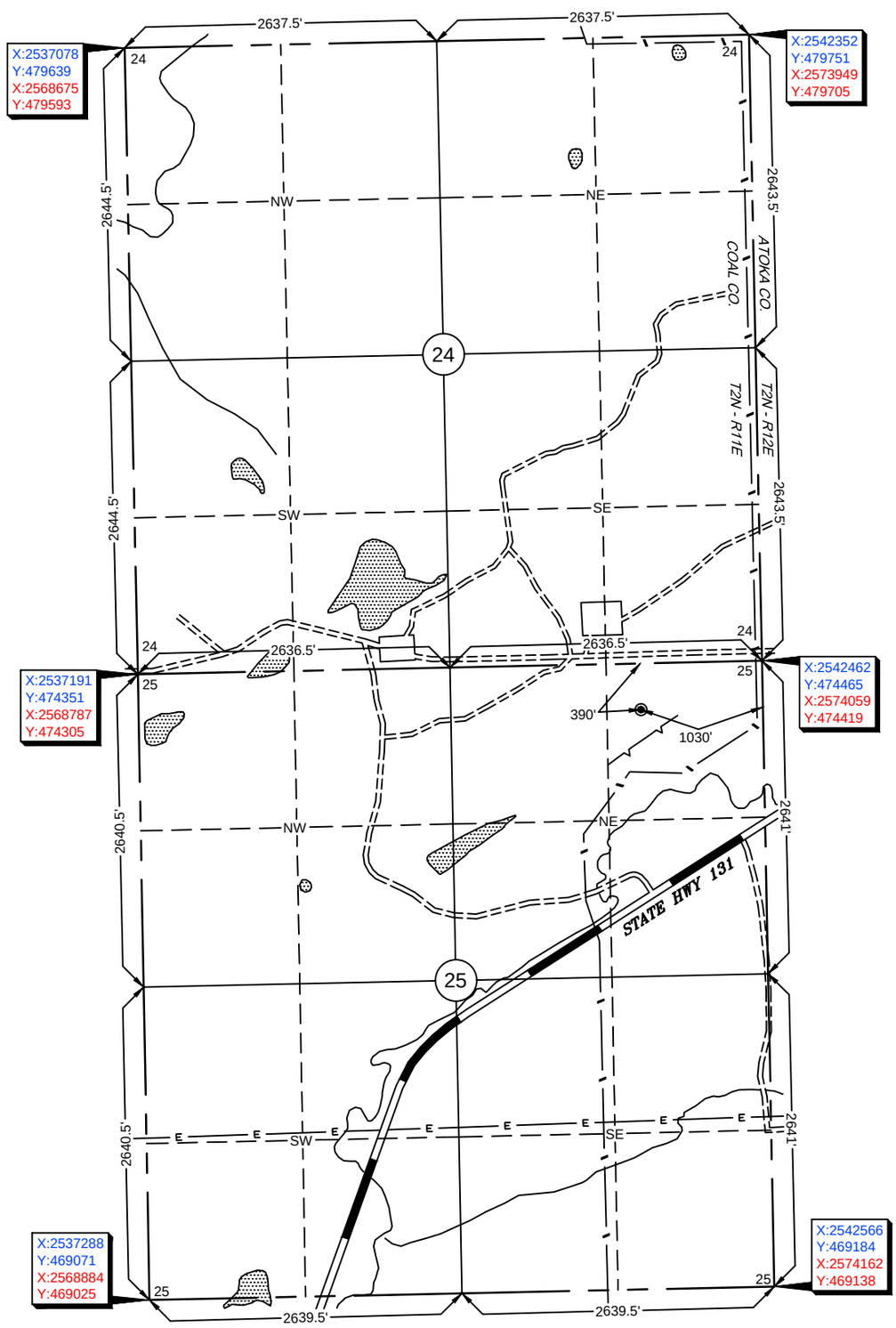
Accessibility : From the Southwest.
Directions : From the junction of State Hwy 31 & State Hwy 131, Northeast of Coalgate, OK, go 3.7 miles Northeast on Hwy 131 to the entrance of an existing lease road on the North side of the highway.

0' 660' 1320' 1980'
1" = 1320'

GPS DATUM
NAD 83
NAD 27
OK SOUTH ZONE

Surface Hole Loc.:
Lat: 34°37'15.99"N
Lon: 96°05'43.87"W
X: 2541441
Y: 474053

Surface Hole Loc.:
Lat: 34°37'15.65"N
Lon: 96°05'42.88"W
X: 2573037
Y: 474007



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.

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.

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 August 31, 2018

Invoice #6455-A-B
Date Staked : 07/05/16 By : H.S.
Date Drawn : 07/06/16 By : K.M.
Lease Name & Restake : 08/10/16 By : R.S.

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.

8/11/16
LANCE G. MATHIS OK LPLS 1664

LICENSED PROFESSIONAL LAND SURVEYOR
LANCE G. MATHIS
1664
OKLAHOMA