

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

API NUMBER: 029 21356

Approval Date: 01/12/2017
Expiration Date: 07/12/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 26 Twp: 2N Rge: 11E County: COAL
SPOT LOCATION: NW NE NE NW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 218 2243

Lease Name: JOLENE Well No: 2-26HR Well will be 218 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
COALGATE OK 74538

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	10637	6	
2 WOODFORD	11115	7	
3 HUNTON	11295	8	
4		9	
5		10	

Spacing Orders: 530325

Location Exception Orders: 657503

Increased Density Orders: 657502

Pending CD Numbers:

Special Orders:

Total Depth: 16100

Ground Elevation: 627

Surface Casing: 400

Depth to base of Treatable Water-Bearing FM: 220

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 - MIN. 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 26 Twp 2N Rge 11E County COAL
Spot Location of End Point: SW SW SE SW
Feet From: SOUTH 1/4 Section Line: 50
Feet From: WEST 1/4 Section Line: 1523
Depth of Deviation: 10537
Radius of Turn: 573
Direction: 185
Total Length: 4663
Measured Total Depth: 16100
True Vertical Depth: 11295
End Point Location from Lease,
Unit, or Property Line: 50

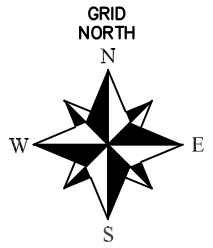
Additional Surface Owner Address City, State, Zip
DONNA DOWNEN, TRUSTEE ROUTE 1, BOX 635 COALGATE, OK 74538

Notes:

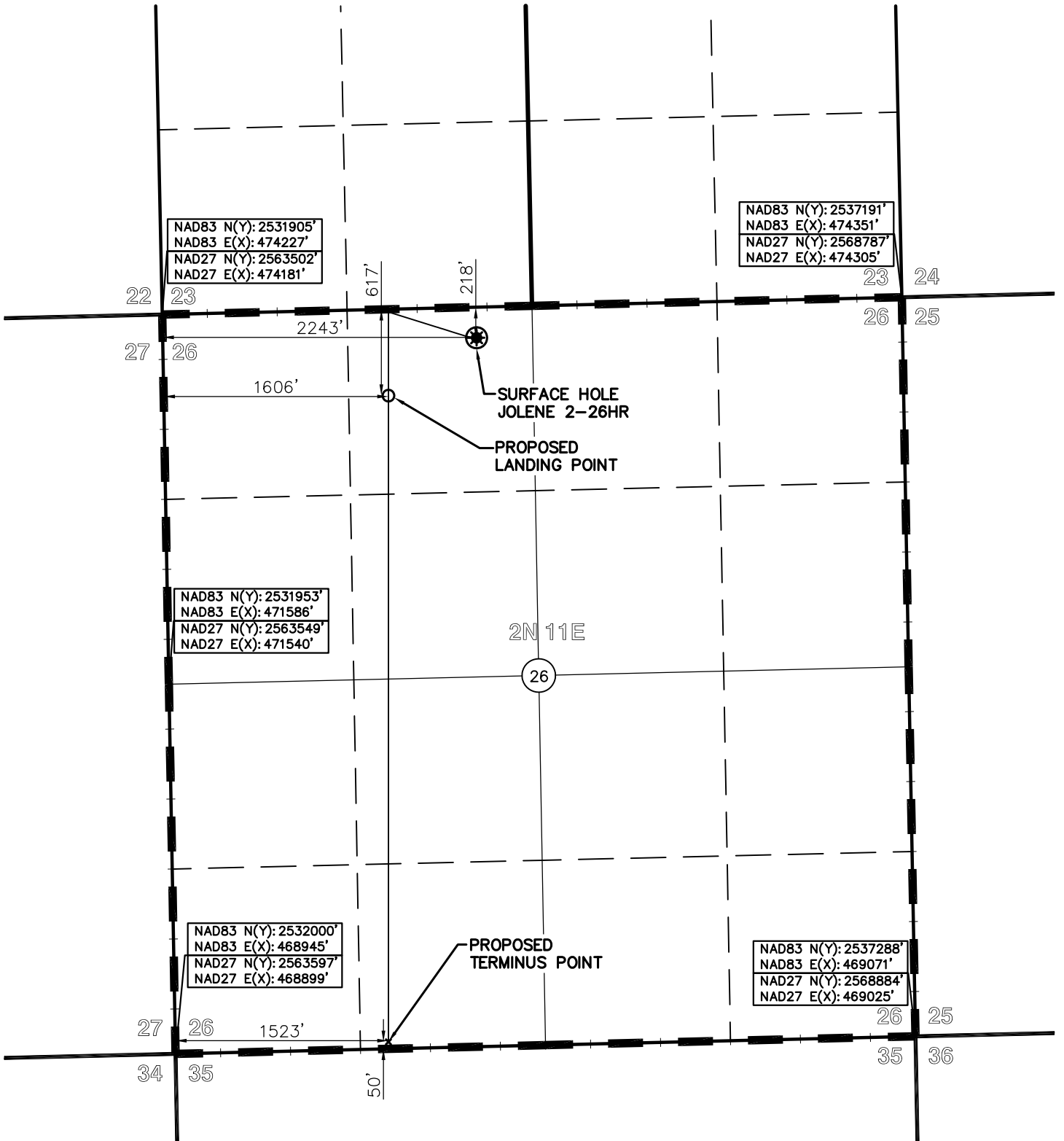
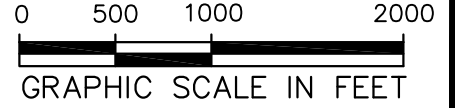
Table with 2 columns: Category, Description. Rows include HYDRAULIC FRACTURING, INCREASED DENSITY - 657502, LOCATION EXCEPTION - 657503, and SPACING - 530325.

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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.

	OKS NAD'27	NAD'27	OKS NAD'83	NAD'83
PROPOSED SURFACE HOLE LOCATION (SHL)	N (Y) = 474,015' E (X) = 2,565,748'	LAT. = 34.621411°N LON. = 96.119466°W	N (Y) = 474,061' E (X) = 2,534,152'	LAT. = 34.621504°N LON. = 96.119741°W
PROPOSED LANDING POINT (LP)	N (Y) = 473,602' E (X) = 2,565,118'	LAT. = 34.620307°N LON. = 96.121585°W	N (Y) = 473,648' E (X) = 2,533,522'	LAT. = 34.620401°N LON. = 96.121860°W
PROPOSED TERMINUS POINT (TP)	N (Y) = 468,985' E (X) = 2,565,118'	LAT. = 34.607624°N LON. = 96.121870°W	N (Y) = 469,031' E (X) = 2,533,522'	LAT. = 34.607718°N LON. = 96.122145°W



API 029-21356



UNIT BOUNDARY
 SURFACE HOLE LOCATION
 NATURAL GROUND ELEVATION (NAVD88, GEOID 12B): 627'

- NOTES:**
1. BEARING BASIS FOR THIS SURVEY IS BASED ON THE NORTH AMERICAN DATUM OF 1983, OKLAHOMA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE.
 2. ALL MEASURED DISTANCES ARE SHOWN IN GRID.
 3. THIS DOES NOT REPRESENT A BOUNDARY SURVEY AND IS SOLELY FOR THE PURPOSE OF PERMITTING A WELL WITH THE OKLAHOMA CORPORATION COMMISSION.

	BP AMERICA PRODUCTION COMPANY US LOWER 48 ONSHORE
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JOLENE 2-26HR PLAT

JOLENE
 PART OF THE
 TOWNSHIP 2 NORTH,
 RANGE 11 EAST,
 SECTION 26,
 INDIAN MERIDIAN,
 COAL COUNTY, OKLAHOMA

DRAWN BY BMR	CHECKED BY BMR	SCALE 1"=1000'	DATE 01/17/2017
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