

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

API NUMBER: 087 22069

Approval Date: 03/22/2017
Expiration Date: 09/22/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 03 Twp: 5N Rge: 1W County: MCCLAIN
SPOT LOCATION: NE SW SE SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 614 1905

Lease Name: SHARP 5N 1W 10 Well No: 1HX Well will be 614 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
737 N ELDRIDGE PKWY
HOUSTON, TX 77079-4411

ELVA NORENE SHARP
33902 150TH ST
WAYNE OK 73093

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

	Name	Depth	Name	Depth
1	PENN BASAL UNCONF SAND	6384	6	
2	WOODFORD	6434	7	
3	HUNTON	6580	8	
4			9	
5			10	

Spacing Orders: 637090
637148

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201700912
201700722

Special Orders:

Total Depth: 17088

Ground Elevation: 1100

Surface Casing: 330

Depth to base of Treatable Water-Bearing FM: 280

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: 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: 1B

Liner required for Category: 1B

Pit Location is AP/TE DEPOSIT

Pit Location Formation: TERRACE

Approved Method for disposal of Drilling Fluids:

- A. Evaporation/dewater and backfilling of reserve pit.
- B. Solidification of pit contents.

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: 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 located in a Hydrologically Sensitive Area.

Category of Pit: 3

Liner required for Category: 3

Pit Location is AP/TE DEPOSIT

Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 15 Twp 5N Rge 1W County MCCLAIN

Spot Location of End Point: S2 S2 SE SW

Feet From: SOUTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 1980

Depth of Deviation: 5955

Radius of Turn: 579

Direction: 179

Total Length: 10224

Measured Total Depth: 17088

True Vertical Depth: 6580

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

Notes:

Category

Description

HYDRAULIC FRACTURING

3/20/2017 - 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

MEMO

3/20/2017 - G71 - PIT 1 - SOIL COMPACTED PIT, NOTIFY DISTRICT PRIOR TO TESTING SOIL PIT LINER, PIT 2 - 20-MIL PIT LINER REQUIRED, OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201700722

3/20/2017 - G60 - (I.O.) 10 & 15-5N-1W EST MULTIUNIT HORIZONTAL WELL X637090 (10-5N-1W) BPUNC, WDFD, HNTN X637148 (15-5N-1W) BPUNC, WDFD, HNTN (BPUNC AND HNTN ARE ASSOCIATED COMMON SOURCES OF SUPPLY TO WDFD) 50% 10-5N-1W 50% 15-5N-1W NO OP. NAMED HEARING REC. 2/28/17 (THOMAS)

PENDING CD - 201700912

3/20/2017 - G60 - (I.O.) 10 & 15-5N-1W X637090 (10-5N-1W) BPUNC, WDFD, HNTN X637148 (15-5N-1W) BPUNC, WDFD, HNTN SHL NCT 330' FSL, NCT 300' FWL COMPL. INT. (10-5N-1W) NCT 165' FNL, NCT 0' FSL, NCT 330' FWL COMPL. INT. (15-5N-1W) NCT 0' FNL, NCT 165' FSL, NCT 330' FWL NO OP. NAMED REC. 3/6/17 (P. PORTER)

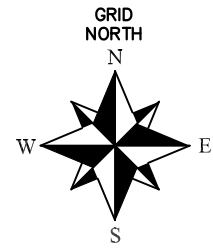
This permit does not address the right of entry or settlement of surface damages.
The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

087 22069 SHARP 5N 1W 10 1HX

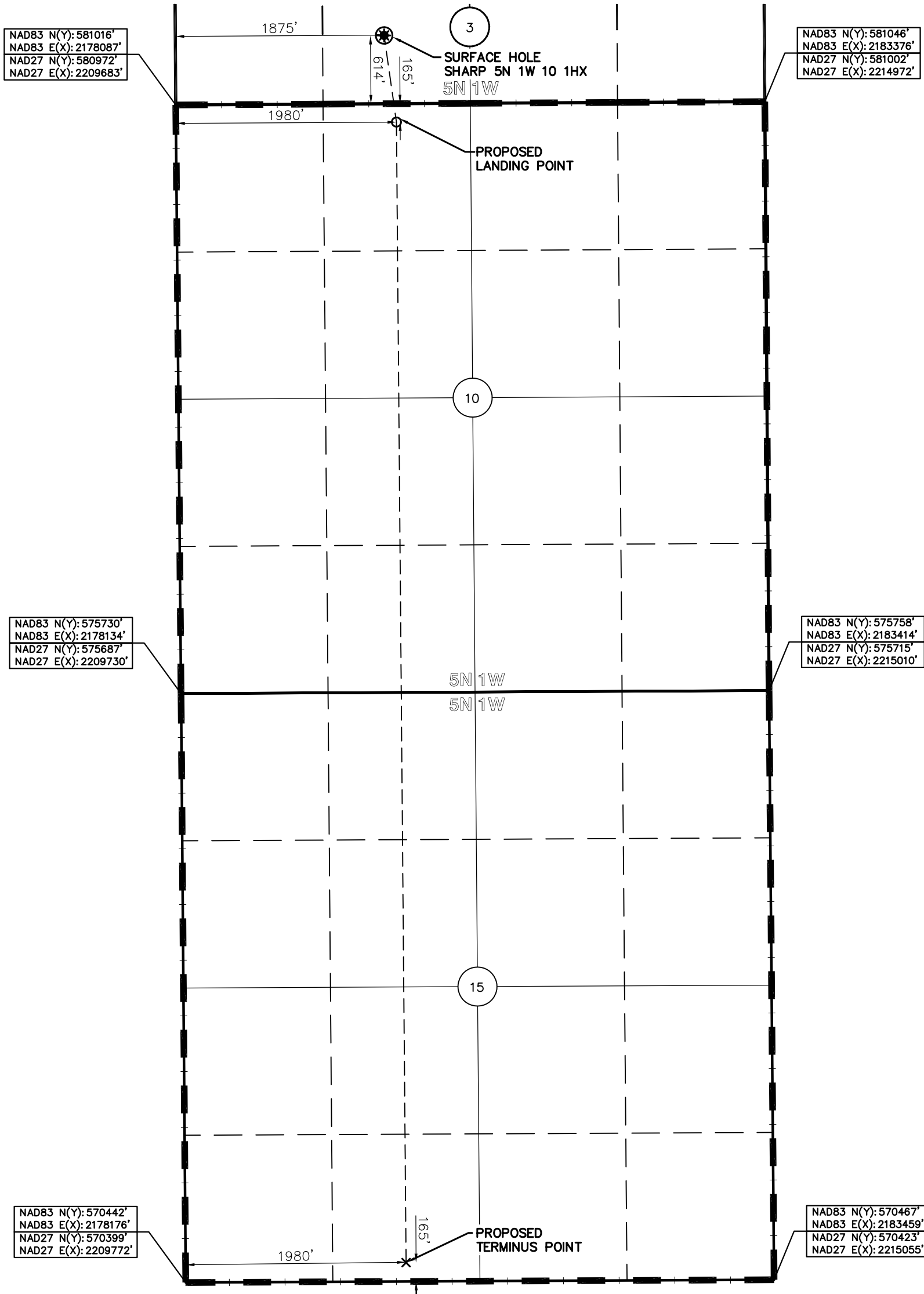
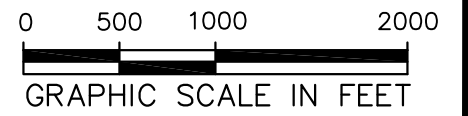
Category	Description
SPACING - 637090	3/20/2017 - G60 - (640)(HOR) 10-5N-1W EST BPUNC, WDFD, HNTN, OTHERS COMPL. INT. (BPUNC, HNTN) NCT 660' FB COMPL. INT. (WDFD) NCT 330' FB
SPACING - 637148	3/20/2017 - G60 - (640)(HOR) 15-5N-1W EST BPUNC, WDFD, HNTN COMPL. INT. (BPUNC, HNTN) NCT 660' FB COMPL. INT. (WDFD) NCT 330' FB (COEXIST WITH SP. ORDER 160310 HNTN)

This permit does not address the right of entry or settlement of surface damages.
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	OKS NAD'27	NAD'27	OKS NAD'83	NAD'83
PROPOSED SURFACE HOLE LOCATION (SHL)	N (Y) = 581,597' E (X) = 2,211,554'	LAT. = 34.929467°N LON. = 97.294230°W	N (Y) = 581,640' E (X) = 2,179,957'	LAT. = 34.929542°N LON. = 97.294534°W
PROPOSED LANDING POINT (LP)	N (Y) = 580,819' E (X) = 2,211,664'	LAT. = 34.927329°N LON. = 97.293880°W	N (Y) = 580,862' E (X) = 2,180,068'	LAT. = 34.927404°N LON. = 97.294184°W
PROPOSED TERMINUS POINT (TP)	N (Y) = 570,578' E (X) = 2,211,751'	LAT. = 34.899189°N LON. = 97.293829°W	N (Y) = 570,621' E (X) = 2,180,155'	LAT. = 34.899265°N LON. = 97.294132°W



3508722069



UNIT BOUNDARY
 SURFACE HOLE LOCATION
 NATURAL GROUND ELEVATION (NAVD88, GEOID 12B): 1099'

NOTES:
 1. BEARING BASIS FOR THIS SURVEY IS BASED ON THE NORTH AMERICAN DATUM OF 1927, 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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SHARP 5N 1W 10 1HX PLAT

SHARP
 PART OF THE
 TOWNSHIP 5 NORTH,
 RANGE 1 WEST,
 SECTION 3,
 INDIAN MERIDIAN,
 MCCLAIN COUNTY, OKLAHOMA

DRAWN BY BMR	CHECKED BY DAP	SCALE 1"=1000'	DATE 03/28/2017
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