

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

API NUMBER: 017 25073

Approval Date: 09/19/2017
Expiration Date: 03/19/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 09 Twp: 10N Rge: 6W County: CANADIAN
SPOT LOCATION: SE NE NW SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 2218 1217

Lease Name: BRAUM FAMILY 9-16 Well No: 3XH Well will be 1217 feet from nearest unit or lease boundary.
Operator Name: APACHE CORPORATION Telephone: 7132966000; 9184914 OTC/OCC Number: 6778 0

APACHE CORPORATION
2000 POST OAK BLVD STE 100
HOUSTON, TX 77056-4497

WHB CATTLE, L.P. F/K/A W. H. BRAUM, L.P.
491 C.S. 2880
TUTTLE OK 73089

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

Name	Depth	Name	Depth
1 WOODFORD	9970	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 242927 Location Exception Orders: 667511 Increased Density Orders: 664077
658728
667510

Pending CD Numbers:

Special Orders:

Total Depth: 18500 Ground Elevation: 1232 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 210

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

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 ALLUVIAL

Pit Location Formation: ALLUVIUM

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

PERMIT NO: 17-32980

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 ALLUVIAL

Pit Location Formation: ALLUVIUM

HORIZONTAL HOLE 1

Sec 16 Twp 10N Rge 6W County CANADIAN

Spot Location of End Point: SE SW SW SW

Feet From: SOUTH 1/4 Section Line: 150

Feet From: WEST 1/4 Section Line: 380

Depth of Deviation: 9230

Radius of Turn: 872

Direction: 185

Total Length: 7900

Measured Total Depth: 18500

True Vertical Depth: 10350

End Point Location from Lease,
Unit, or Property Line: 150

Notes:

Category

Description

DEEP SURFACE CASING

9/7/2017 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING

HAUDRALIC FRACTURING

9/7/2017 - 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

INCREASED DENSITY - 664077

9/18/2017 - G64 - (I.O.) 9-10N-6W
X658728 WDFD
4 WELLS
APACHE CORPORATION
5-30-2017

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
LOCATION EXCEPTION - 667511	9/18/2017 - G64 - (E.O.) 9 & 16-10N-6W X658728 WDFD, OTHERS 9-10N-6W X242927 WDFD, OTHERS 16-10N-6W SHL (9-10N-6W) 2218' FSL, 1217' FWL COMPL. INT. (9-10N-6W) NCT 1700' FSL, NCT 0' FSL, NCT 330' FWL COMPL. INT. (16-10N-6W) NCT 0' FNL, NCT 150' FSL, NCT 330' FWL APACHE CORPORATION 8-25-2017
MEMO	9/7/2017 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 242927	9/18/2017 - G64 - (640) 16-10N-6W EST WDFD, OTHERS EXT OTHERS
SPACING - 658728	9/18/2017 - G64 - (640) 9-10N-6W EXT 242927 WDFD
SPACING - 667510	9/18/2017 - G64 - (E.O.) 9 & 16-10N-6W EST MULTIUNIT HORIZONTAL WELL X658728 WDFD, OTHERS 9-10N-6W X242927 WDFD, OTHERS 16-10N-6W 33% 9-10N-6W 67% 16-10N-6W APACHE CORPORATION 8-25-2017

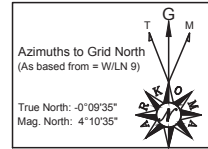
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Office of the Conservation Division as to when Surface Casing will be run.

Apache Well Location Plat

S.H.L. Sec. 9-10N-6W I.M.
B.H.L. Sec. 16-10N-6W I.M.

Operator: APACHE CORPORATION
Lease Name and No.: BRAUM FAMILY 9-16-3XH
Footage: 2218' FSL - 1217' FWL PAD ELEVATION: 1232' (NAVD 88) Good Site? YES
Section: 9 Township: 10N Range: 6W I.M.
County: Canadian State of Oklahoma
Alternate Loc.: N/A
Terrain at Loc.: Location fell on Existing Pad.

API: 017 25073



Accessibility: From the South.
Directions: From the intersection of Highway 81 and Highway 152 in Union City, OK, go 5.0 miles East on Highway 52, then go 2.0 miles South on "Banner Road" to the Northwest Corner of Section 9-10N-6W.

ANTI-COLLISION DATA SHOWN HEREON:
BLUE BOX: FOUND AND SHOT ON GROUND.
RED BOX: SEARCHED FOR BUT NO EVIDENCE FOUND ON GROUND, PLACED FROM FOOTAGES ON OCC WEBSITE.

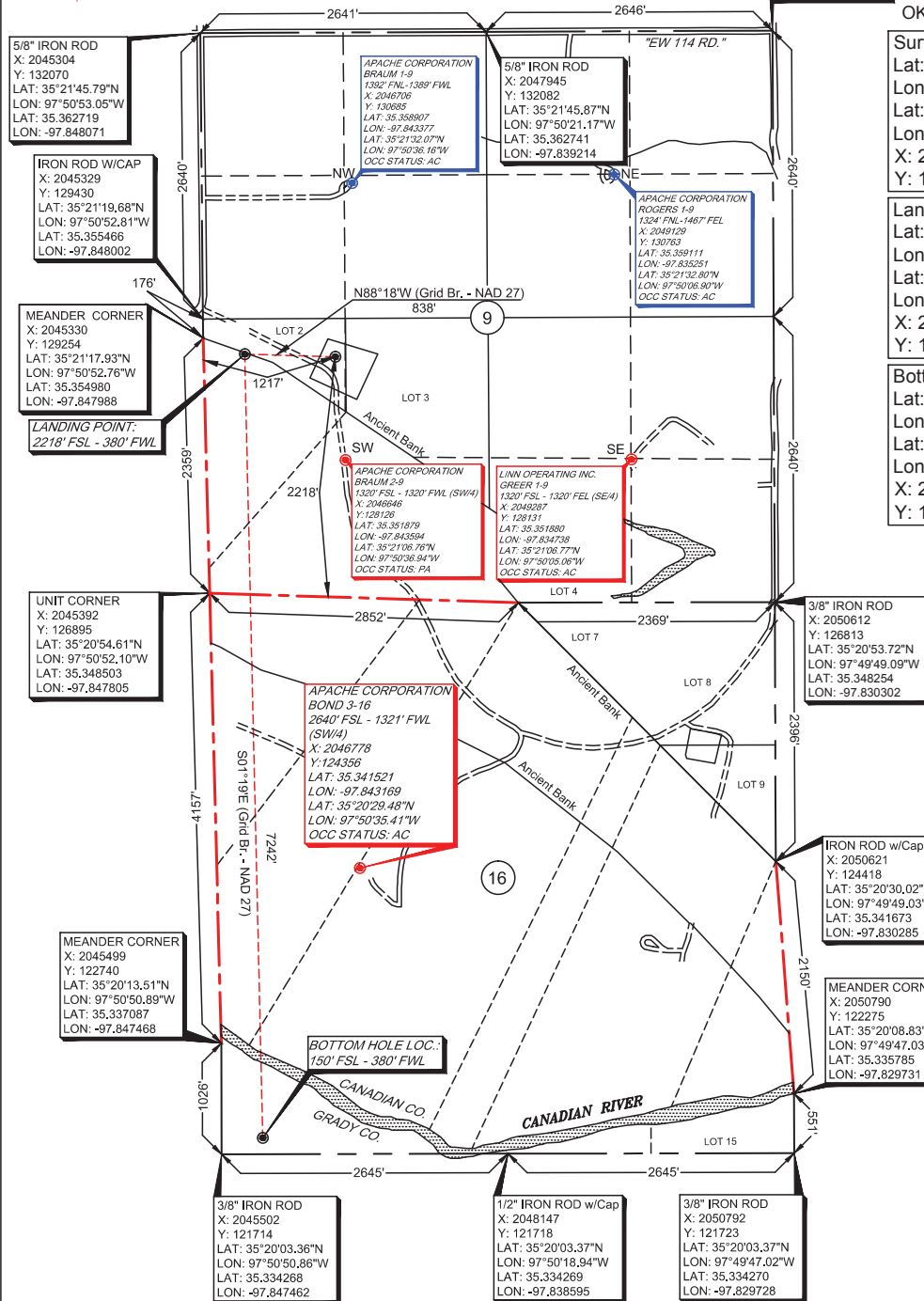
3/8" IRON ROD
X: 2050591
Y: 132093
LAT: 35°21'45.93"N
LON: 97°49'49.23"W
LAT: 35.362759
LON: -97.830342

GPS DATUM
NAD - 27
OK NORTH ZONE

Surface Hole Loc.:
Lat: 35°21'16.20"N
Lon: 97°50'38.04"W
Lat: 35.354499
Lon: -97.843901
X: 2046553
Y: 129080

Landing Point:
Lat: 35°21'16.45"N
Lon: 97°50'48.15"W
Lat: 35.354571
Lon: -97.846710
X: 2045715
Y: 129104

Bottom Hole Loc.:
Lat: 35°20'04.85"N
Lon: 97°50'46.28"W
Lat: 35.334680
Lon: -97.846189
X: 2045882
Y: 121864



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 the Professional Land Surveyor for more information. If any inconsistency is determined, GPS data is preferred over ground measurements. Ground measurements may be assumed from a Government Survey/Plat or assumed data from a previous survey. Distances measured on the ground, and further, does not represent a true boundary survey. NOTE: X and Y data shown hereon for Section Corners may 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
Invoice #6939-B-C
Date Staked : 07/27/17 By: J.L.
Date Drawn : 08/03/17 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.

Lance G. Mathis
LANCE G. MATHIS
08/03/17
OK LPLS 1664

