

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

API NUMBER: 083 24436

Approval Date: 09/14/2018

Expiration Date: 03/14/2020

Horizontal Hole

Disposal

PERMIT TO DRILL

WELL LOCATION: Sec: 06 Twp: 17N Rge: 4W

County: LOGAN

SPOT LOCATION: SE SE SE SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 218 230

Lease Name: PRAIRIE SWD

Well No: 1

Well will be 218 feet from nearest unit or lease boundary.

Operator Name: COTTONMOUTH SWD LLC

Telephone: 9184886416

OTC/OCC Number: 24157 0

COTTONMOUTH SWD LLC
6100 S YALE AVE STE 1700
TULSA, OK 74136-1921

CHARLES EMMERICH
29705 E 730 RD.
CRESCENT OK 73028

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

Name	Depth	Name	Depth
1 WILCOX	7220	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 10447

Ground Elevation: 1162

Surface Casing: 390

Depth to base of Treatable Water-Bearing FM: 340

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-35045
H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

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.

HORIZONTAL HOLE 1

Sec 06 Twp 17N Rge 4W County LOGAN

Spot Location of End Point: NW NW NW SE

Feet From: SOUTH 1/4 Section Line: 2600

Feet From: EAST 1/4 Section Line: 2600

Depth of Deviation: 6679

Radius of Turn: 521

Direction: 155

Total Length: 2949

Measured Total Depth: 10447

True Vertical Depth: 7220

End Point Location from Lease,
Unit, or Property Line: 2600

Notes:

Category

Description

HYDRAULIC FRACTURING

8/15/2018 - G71 - OCC 165:10-3-10 REQUIRES:

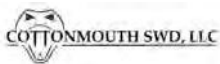
1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE;

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

SPACING

8/15/2018 - G71 - N/A - DISPOSAL WELL



Well Location Plat

Sec. 6-17N-4W I.M.

Operator: COTTONMOUTH SWD, LLC

API:083 24436

Lease Name and No.: PRAIRIE SWD #1

Footage: 218' FSL - 230' FEL Gr. Elevation: 1162'

SE/4-SE/4-SE/4 Section: 6 Township: 17N Range: 4W I.M.

County: Logan State of Oklahoma

Terrain at Loc.: Location fell in a flat open field.



All bearings shown are grid bearings.

500' 1000' 1500'

1" = 1000'

GPS DATUM

NAD 83

NAD 27

UTM - ZONE 14

Surface Hole Loc.:

Lat: 35°58'18.01"N

Lon: 97°39'30.39"W

Lat: 35.97162829

Lon: -97.65811583

X:2037366

Y:13062420

Landing Point:

Lat: 35°58'20.90"N

Lon: 97°39'33.90"W

Lat: 35.97242994

Lon: -97.65909103

X:2037074

Y:13062708

Bottom Hole Loc.:

Lat: 35°58'41.68"N

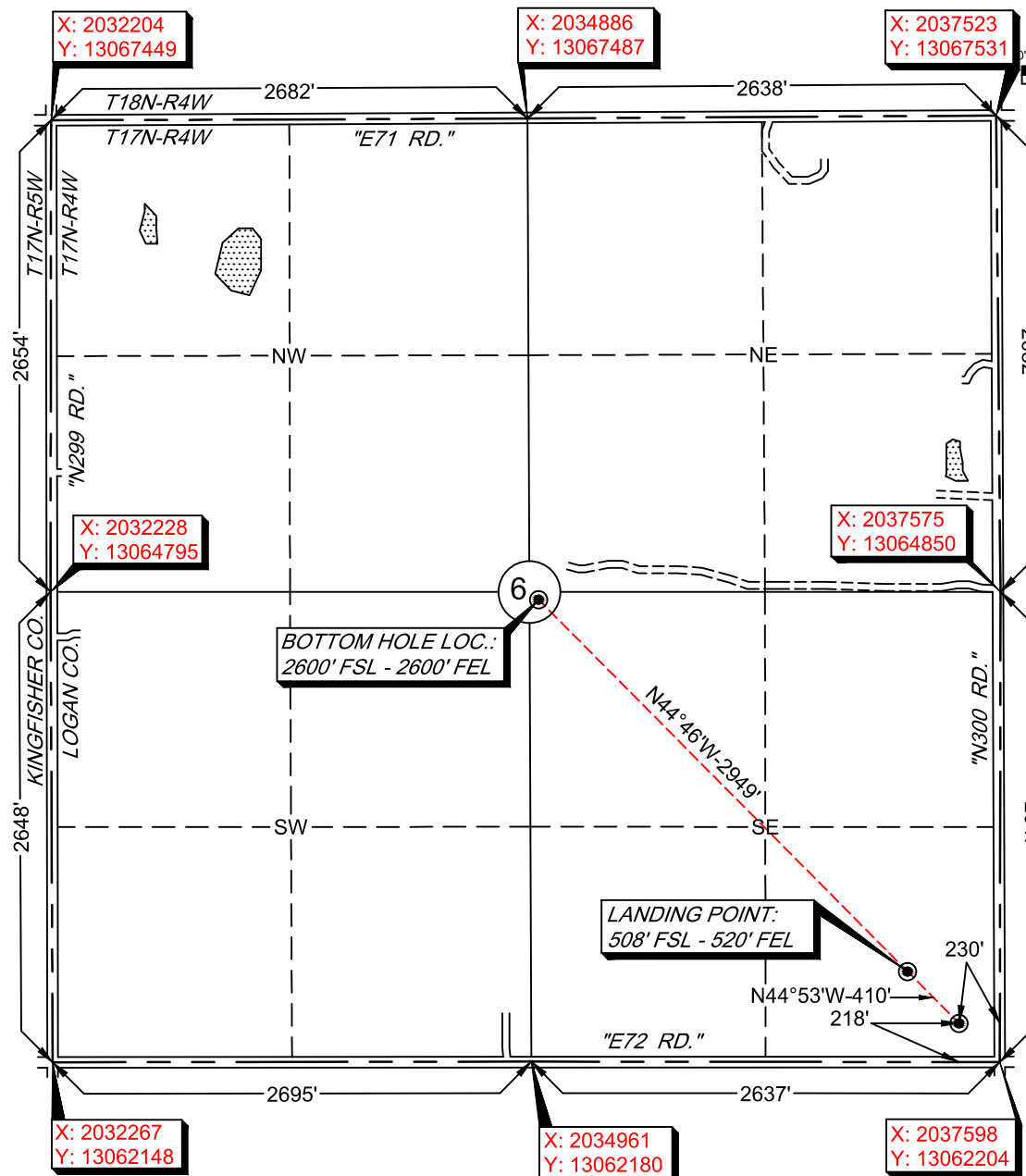
Lon: 97°39'59.09"W

Lat: 35.97820128

Lon: -97.66608609

X:2034976

Y:13064779



-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.
-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.

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, 2020

Invoice #7997

Date Staked: 07/16/18 By: D.K.

Date Drawn: 07/17/18 By: J.D.

Add LP & BHL: 08/13/18 By: J.D.

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

08/13/18

OK LPLS 1664

