

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

API NUMBER: 083 24434

Approval Date: 09/13/2018

Expiration Date: 03/13/2019

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 32 Twp: 17N Rge: 4W

County: LOGAN

SPOT LOCATION: ☐ SE ☐ SE ☐ SW ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 260 1100

Lease Name: 4 S RANCH

Well No: 3-32MH

Well will be 260 feet from nearest unit or lease boundary.

Operator Name: RED BLUFF RESOURCES OPERATING LLC

Telephone: 4052088660

OTC/OCC Number: 23828 0

RED BLUFF RESOURCES OPERATING LLC
3030 NW EXPRESSWAY STE 650
OKLAHOMA CITY, OK 73112-5447

4/S RANCH
11300 PORTLAND
OKLAHOMA CITY OK 73025

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

Name	Depth	Name	Depth
1 MISSISSIPPI	6600	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 670918

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201806695

Special Orders:

Total Depth: 12188

Ground Elevation: 1037

Surface Casing: 430

Depth to base of Treatable Water-Bearing FM: 380

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

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: 18-35300

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 32 Twp 17N Rge 4W County LOGAN

Spot Location of End Point: N2 NW NE NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 1650

Depth of Deviation: 5987

Radius of Turn: 800

Direction: 5

Total Length: 4944

Measured Total Depth: 12188

True Vertical Depth: 6800

End Point Location from Lease,

Unit, or Property Line: 165

Notes:

Category

Description

HYDRAULIC FRACTURING

8/31/2018 - 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

PENDING CD - 201806695

9/11/2018 - G57 - (I.O.) 32-17N-4W

X670918 MSSP*

COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 330' FWL

RED BLUFF RESOURCES OPERATING, LLC.

REC 8-24-2018 (MILLER)

**S/B X670918 MISS; WILL BE CORRECTED FOR INTERIM ORDER SUBMITTED TO THE OCC PER ATTORNEY FOR OPERATOR

SPACING - 670918

9/11/2018 - G57 - (640)(HOR) 32-17N-4W

EST MISS

POE TO BHL NCT 660' FB

(COEXIST W/ SP. ORDER 59564/61637 MSSLM S2 & NW4 , SP. ORDER 59564/61637/586456 MSSLM NE4)

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083 24434 4 S RANCH 3-32MH

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Well Location Plat

Sec. 32-17N-4W I.M.

Operator: RED BLUFF RESOURCES

API:083 24434

Lease Name and No.: 4-S RANCH 3-32 MH

Footage: 260' FSL - 1100' FWL Gr. Elevation: 1037'

Section: 32 Township: 17N Range: 4W I.M.

County: Logan State of Oklahoma

Terrain at Loc.: Location fell in open pasture on the South side of a transmission line.



All bearings shown
are grid bearings.


$$1'' = 1000'$$

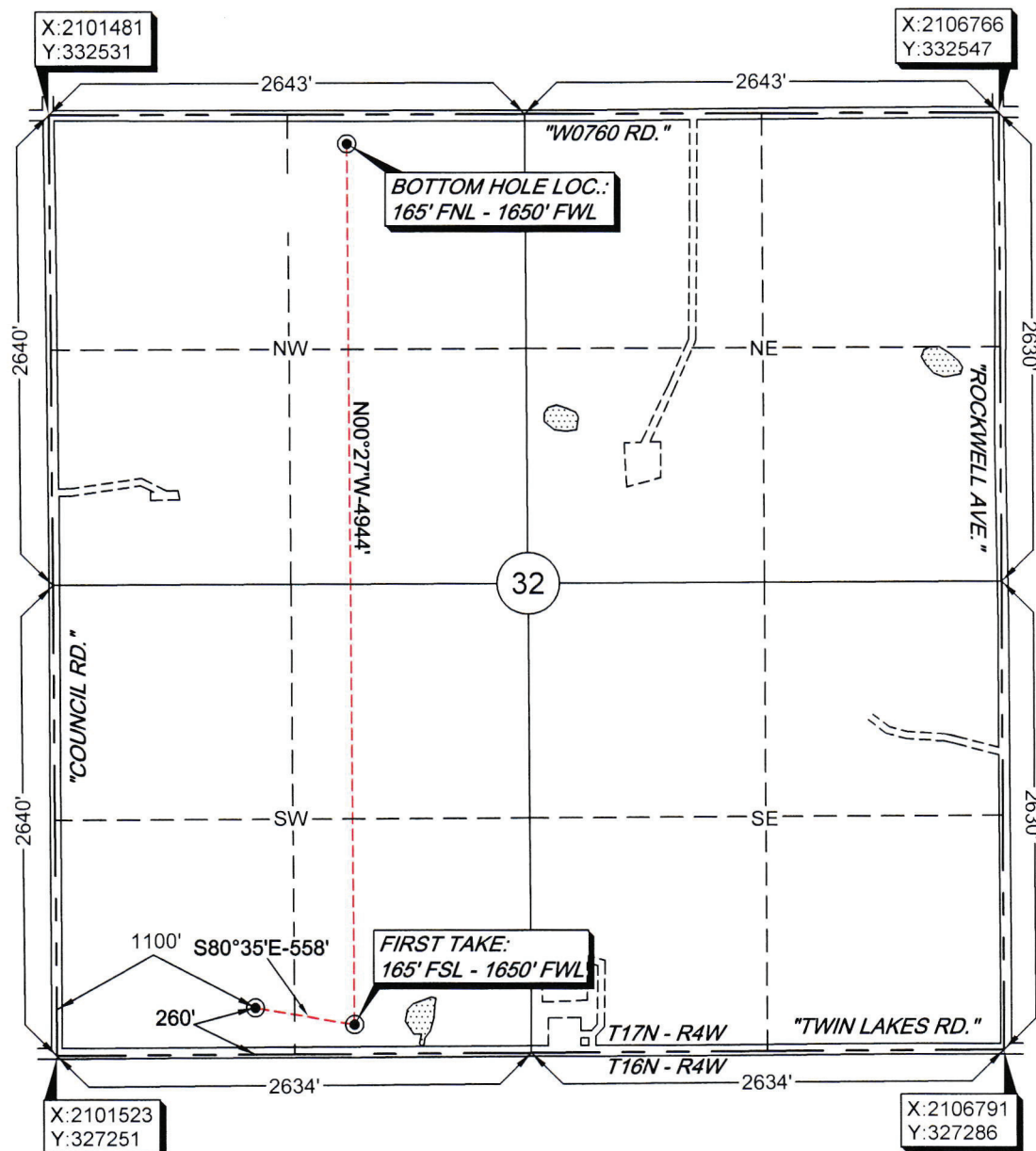
GPS DATUM
NAD 27
OK NORTH ZONE

Surface Hole Loc.:
Lat: 35°53'57.32"N
Lon: 97°39'12.67"W
X: 2102621
Y: 327518

First Take:
Lat: 35°53'56.39"N
Lon: 97°39'05.99"W
X: 2103171
Y: 327427

Bottom Hole Loc.:
Lat: 35°54'45.29"N
Lon: 97°39'06.25"W
X: 2103132
Y: 332771

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 Arkansas Surveying and Mapping promptly if any inconsistency is determined. GPS data is observed from RTK - GPS. NO- E, X and Y data shown hereon for Section Corners may NOT have been surveyed on this ground, and further, does NOT represent a true Boundary Survey. Stationed at a proportionate distance from opposing section corners, or corner(s) 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 #7952-A


Date Staked: 08/24/18 By: H.S.

Date Drawn: 08/27/18 By: J.D.

Revise Lease Name: 09/13/18 By: R.M.

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

09/13/18

OK LPLS 1664

