

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

API NUMBER: 093 25172

Approval Date: 11/02/2018

Expiration Date: 05/02/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 09 Twp: 20N Rge: 14W County: MAJOR

SPOT LOCATION: NW NW NW NW FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 200 238

Lease Name: BOWERS Well No: 1-4MH Well will be 200 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 900
OKLAHOMA CITY, OK 73112-5447

EMERSON DWIGHT BOWERS TRUST
54252 S COUNTY RD 241
FAIRVIEW OK 73737

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	9110	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201805683
201805684

Special Orders:

Total Depth: 14042

Ground Elevation: 1753

Surface Casing: 530

Depth to base of Treatable Water-Bearing FM: 480

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: 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 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: 18-35629
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 04 Twp 20N Rge 14W County MAJOR

Spot Location of End Point: NE NW NW NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 380

Depth of Deviation: 8164

Radius of Turn: 477

Direction: 1

Total Length: 5129

Measured Total Depth: 14042

True Vertical Depth: 9198

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

Notes:

Category

Description

HYDRAULIC FRACTURING

10/15/2018 - GA8 - 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

INTERMEDIATE CASING

10/15/2018 - GA8 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE MORROW SERIES

PENDING CD - 201805683

10/23/2018 - G58 - (640)(HOR) 4-20N-14W
VAC 133244 MSSSD, CSTR, OTHERS***
EST MSSP, OTHER
COMPL. INT. NLT 660' FB
REC 8/13/2018 (NORRIS)

**NO NEED TO VAC OTHERS IF NOT RESPACING THOSE FORMATIONS; ORDER WILL BE REOPENED AND CORRECTED PER ATTORNEY FOR OP; OCC RECEIVED COPY OF CORRECTED ORDER,

PENDING CD - 201805684

10/23/2018 - G58 - (I.O.) 4-20N-14W
X201805683 MSSP
X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO EXISTING WELL
COMPL. INT. NCT 165' FNL, NCT 165' FSL, NCT 330' FWL
NO OP. NAMED
REC 8/13/2018 (NORRIS)

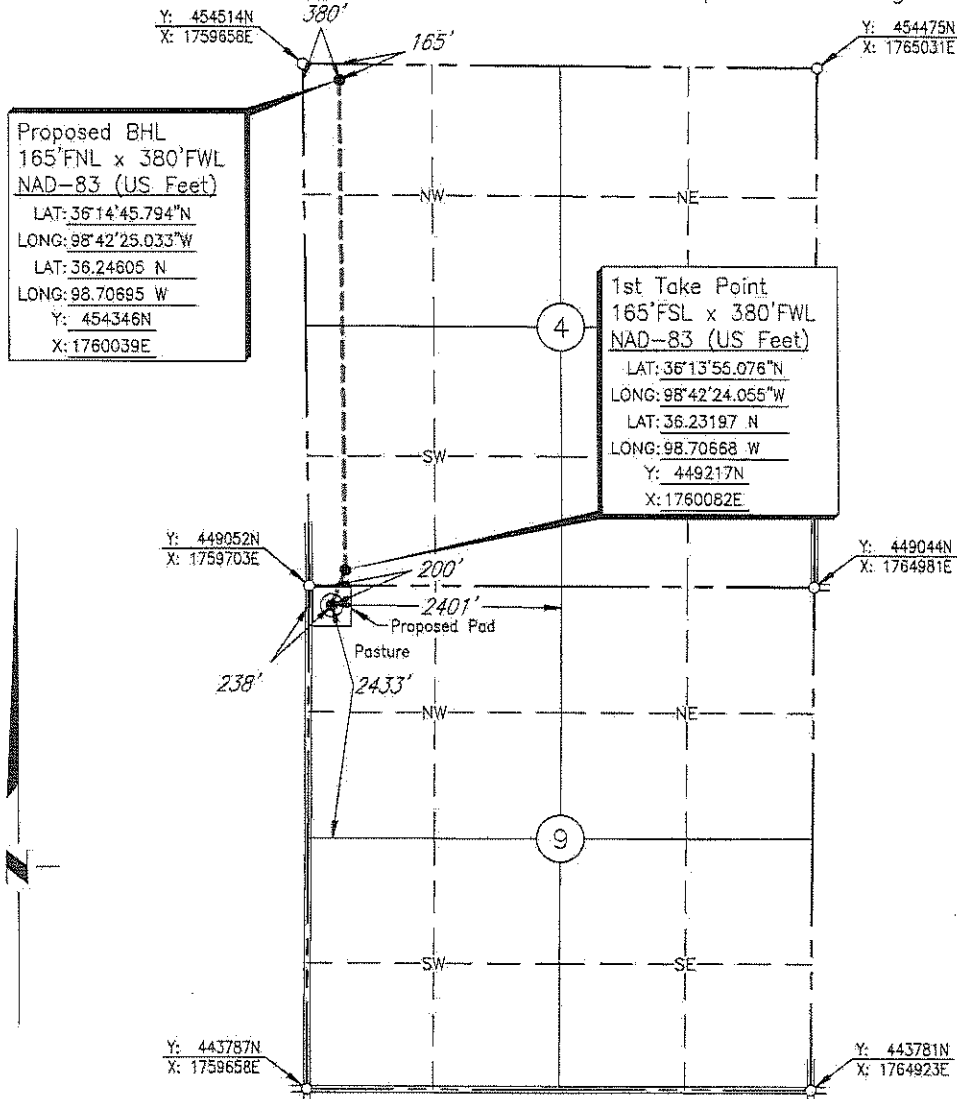
093-25172


CIMARRON
 SURVEYING & MAPPING CO.

C.A. No. 1780 Expires June 30, 2020

 1530 SW 89th Street, Bldg. C3
 Oklahoma City, OK
 (405) 692-7348
 www.cimsurvey.com

MAJOR _____ County, Oklahoma

200'FNL - 238'FWL Section 9 Township 20N Range 14W I.M.

Scale: 1" = 2000'

GPS Observation: Latitude 36°13'51.458" NLongitude 98°42'25.761" WLatitude 36.23096 NLongitude 98.70716 WDate Staked: April 20, 2018State Plane NAD83 Y: 448852NOklahoma North Zone: X: 1759940EOperator: RED BLUFF RESOURCESElevation: 1753'Lease Name: BowersWell No.: 1-4 MHTopography & Vegetation: PastureAlternate Location Stakes Set: NoGood Drill Site? YesBest Accessibility to Location: From the North Line