

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

API NUMBER: 083 24438

Approval Date: 10/12/2018

Expiration Date: 04/12/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 09 Twp: 17N Rge: 2W

County: LOGAN

SPOT LOCATION: ☐ SW ☐ SW ☐ SW ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 112 205

Lease Name: PLAGG

Well No: 1-16MH

Well will be 112 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

DOLESE BROTHERS CO.
20 NW 13TH STREET
OKLAHOMA CITY OK 73103

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	5280	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 673270

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201807545

Special Orders:

Total Depth: 11630

Ground Elevation: 906

Surface Casing: 250

Depth to base of Treatable Water-Bearing FM: 40

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: 18-35437

H. CLOSED SYSTEM=STEEL PITS (REQUIRED - CIMARRON RIVER)

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 16 Twp 17N Rge 2W County LOGAN

Spot Location of End Point: S2 SW SW SW

Feet From: SOUTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 330

Depth of Deviation: 5253

Radius of Turn: 900

Direction: 175

Total Length: 4963

Measured Total Depth: 11630

True Vertical Depth: 5338

End Point Location from Lease,

Unit, or Property Line: 165

Notes:

Category

Description

HYDRAULIC FRACTURING

10/2/2018 - 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 - 201807545

10/12/2018 - G75 - (I.O.) 16-17N-2W
X673270 MSSP
COMPL. INT. NCT 165' FNL, NCT 165' FSL, NCT 330' FWL
NO OP. NAMED
REC 10-9-2018 (MINMIER)

SPACING - 673270

10/12/2018 - G75 - (640)(HOR) 16-17N-2W
EXT 641066 MSSP, OTHERS
POE TO BHL NCT 660' FB

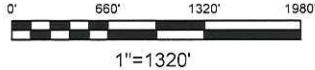


Well Location Plat

S.H.L. Sec. 9-17N-2W I.M.
B.H.L. Sec. 16-17N-2W I.M.

Operator: RED BLUFF RESOURCES
Lease Name and No. : PLAGG 1-16MH
Footage : 112' FSL - 205' FWL GR. ELEVATION : 906' Good Site? YES
Section: 9 Township: 17N Range: 2W I.M.
County : Logan State of Oklahoma
Alternate Loc.: N/A
Terrain at Loc. : Fell on existing location, 102' S. & 30' W. of the Everest 1-9MH.

API 083-24438

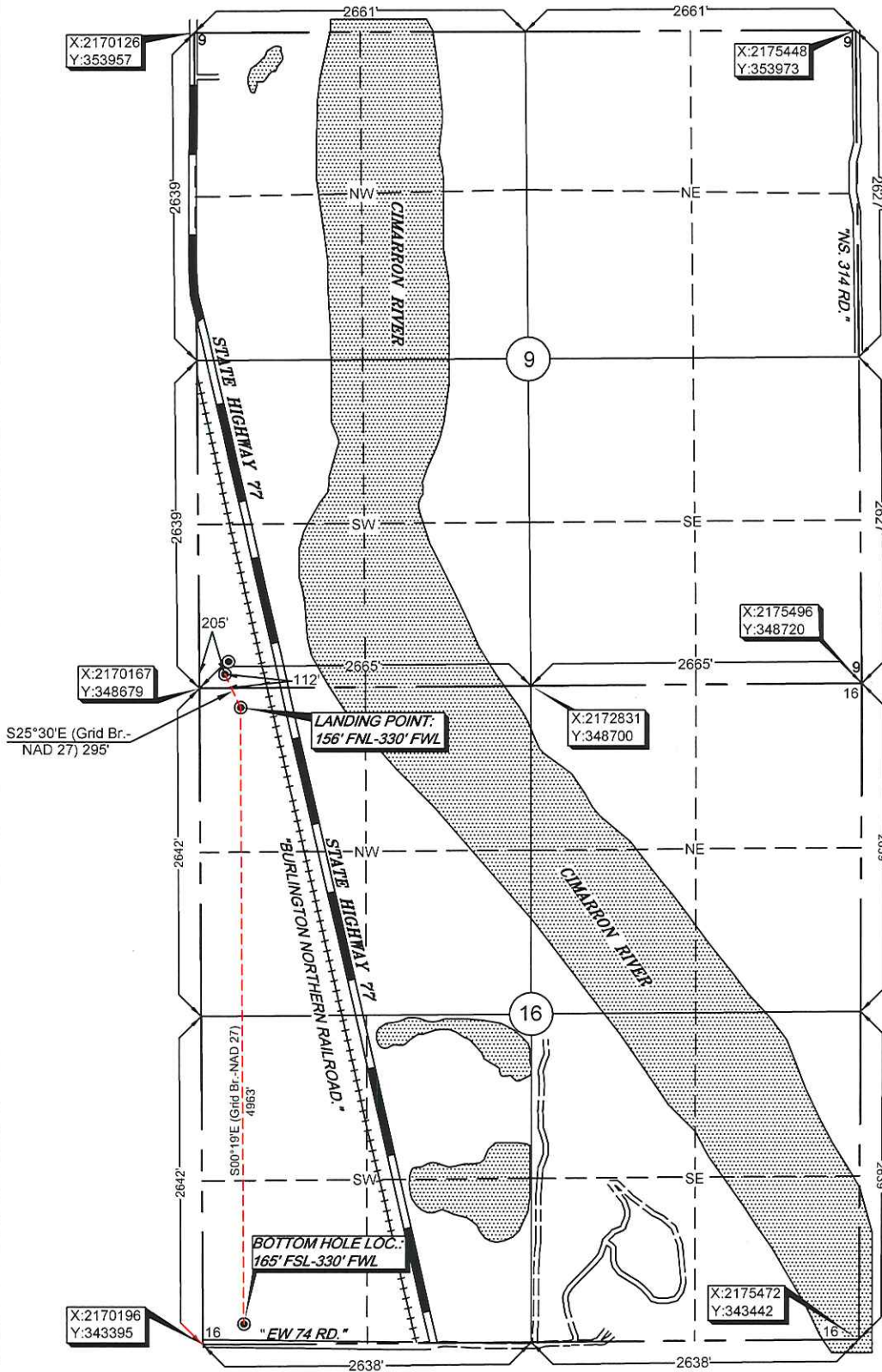


GPS DATUM
NAD 27
OK NORTH ZONE

Surface Hole Loc.:
Lat: 35°57'24.54"N
Lon: 97°25'27.67"W
X: 2170371
Y: 348793

Landing Point:
Lat: 35°57'21.88"N
Lon: 97°25'26.15"W
X: 2170498
Y: 348526

Bottom Hole Loc.:
Lat: 35°56'32.80"N
Lon: 97°25'26.18"W
X: 2170525
Y: 343563



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.
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.
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.

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 #7181
Date Staked : 06/06/17 By : C.K.
Date Drawn : 06/16/17 By : C.K.

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

06/20/17

OK LPLS 1664

