

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

API NUMBER: 121 24849

Approval Date: 05/17/2019

Expiration Date: 11/17/2020

Horizontal Hole
Oil & Gas
Multi Unit

PERMIT TO DRILL

WELL LOCATION: Sec: 29 Twp: 8N Rge: 18E

County: PITTSBURG

SPOT LOCATION: ☐ NE ☐ NW ☐ NE ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 2444 1669

Lease Name: MCMENNAMY

Well No: 4H-29

Well will be 1669 feet from nearest unit or lease boundary.

Operator RED MOUNTAIN OPERATING LLC
Name:

Telephone: 4058424500

OTC/OCC Number: 23694 0

RED MOUNTAIN OPERATING LLC
5901 N WESTERN AVE
OKLAHOMA CITY, OK 73118-1253

KENNETH R. MCMENNAMY
19133 EAST STATE HWY. 31
QUINTON OK 74561

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	7015	6	
2	WOODFORD	7477	7	
3	HUNTON	7540	8	
4			9	
5			10	

Spacing Orders: 679338
679339
684615
696202
696203

Location Exception Orders: 684881

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 15500

Ground Elevation: 918

Surface Casing: 320

Depth to base of Treatable Water-Bearing FM: 110

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 not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: BOGGY

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

PERMIT NO: 19-36421

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 **not** located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: BOGGY

HORIZONTAL HOLE 1

Sec 32 Twp 8N Rge 18E County PITTSBURG

Spot Location of End Point: S2 S2 S2 S2

Feet From: SOUTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 2640

Depth of Deviation: 7150

Radius of Turn: 750

Direction: 175

Total Length: 7172

Measured Total Depth: 15500

True Vertical Depth: 7540

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

Notes:

Category

Description

BOTTOM-HOLE LOCATION

4/9/2019 - G75 - 165' FSL, 2640' FWL 32-8N-18E PER STAKING PLAT

HYDRAULIC FRACTURING

3/28/2019 - 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

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.

121 24849 MCMENNAMY 4H-29

Category	Description
LOCATION EXCEPTION - 684881	<p>4/9/2019 - G75 - (I.O.) 29 & 32-8N-18E X679338 MSSP, WDFD, HNTN 29-8N-18E ** X679339 MSSP, WDFD, HNTN 32-8N-18E ++ SHL (29-8N-18E) 2640' FNL, 1320' FWL ## COMPL. INT. (29-8N-18E) NCT 2640' FNL, NCT 0' FSL, NCT 1320' FWL OR FEL COMPL. INT. (32-8N-18E) NCT 0' FNL, NCT 165' FSL, NCT 1320' FWL OR FEL RED MOUNTAIN OP., LLC 10-12-2018</p> <p>** S/B X679338/696202 MSSP, WDFD, HNTN 29-8N-18E; TO BE CORRECTED AT HEARING FOR FINAL ORDER PER ATTORNEY FOR OPERATOR</p> <p>++ S/B X679339/696203 MSSP, WDFD, HNTN 32-8N-18E; TO BE CORRECTED AT HEARING FOR FINAL ORDER PER ATTORNEY FOR OPERATOR</p> <p>## ITD HAS SHL 2444' FSL, 1669' FWL 29-8N-18E; TO BE CORRECTED AT HEARING FOR FINAL ORDER PER OPERATOR</p>
MEMO	<p>3/28/2019 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT</p>
SPACING - 679338	<p>4/9/2019 - G75 - (640)(HOR) 29-8N-18E EST MSSP, WDFD, HNTN, OTHER COMPL. INT. (MSSP, HNTN) NLT 660' FB COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL</p>
SPACING - 679339	<p>4/9/2019 - G75 - (640)(HOR) 32-8N-18E EST OTHER EXT 665456 MSSP, WDFD, HNTN COMPL. INT. (MSSP, HNTN) NLT 660' FB COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL</p>
SPACING - 684615	<p>4/9/2019 - G75 - (I.O.) 29 & 32-8N-18E EST MULTIUNIT HORIZONTAL WELL X679338 MSSP, WDFD, HNTN 29-8N-18E ** X679339 MSSP, WDFD, HNTN 32-8N-18E ++ (MSSP, HNTN ADJACENT COMMON SOURCES OF SUPPLY TO WDFD) 33% 29-8N-18E 67% 32-8N-18E RED MOUNTAIN OP., LLC 10-9-2018</p> <p>** S/B X679338/696202 MSSP, WDFD, HNTN 29-8N-18E; TO BE CORRECTED AT HEARING FOR FINAL ORDER PER ATTORNEY FOR OPERATOR</p> <p>++ S/B X679339/696203 MSSP, WDFD, HNTN 32-8N-18E; TO BE CORRECTED AT HEARING FOR FINAL ORDER PER ATTORNEY FOR OPERATOR</p>
SPACING - 696202	<p>5/17/2019 - G75 - NPT 679338 CORRECTING PARAGRAPH 7(B) TO PUT FORMATIONS IN DEPTH ORDER AND 7(F) TO COEXIST SPACING ORDER # 125682 HNTN 29-8N-18E</p>
SPACING - 696203	<p>5/17/2019 - G75 - NPT 679339 CORRECTING PARAGRAPH 7(B) TO PUT FORMATIONS IN DEPTH ORDER AND 7(F) TO COEXIST SPACING ORDER # 125682 HNTN 32-8N-18E</p>



Well Location Plat

Operator: RED MOUNTAIN ENERGY, LLC

Lease Name and No.: McMENNAMY 0818 4H-29

Footage: 2444' FSL - 1669' FWL Gr. Elevation: 918'

Section: 29 Township: 8N Range: 18E I.M.

County: Pittsburg State of Oklahoma

Terrain at Loc.: Location fell on a hilltop with some small timber.

S.H.L. Sec. 29-8N-18E I.M.
B.H.L. Sec. 32-8N-18E I.M.All bearings shown
are geodetic bearings
unless noted

0 660 1320 1980'

1" = 1320'

GPS DATUM

NAD 83

OK SOUTH ZONE

Surface Hole Loc.:

Lat: 35°08'16.64"N

Lon: 95°25'55.87"W

X: 2736174

Y: 666522

Landing Point:

Lat: 35°08'13.60"N

Lon: 95°25'44.18"W

X: 2737153

Y: 666239

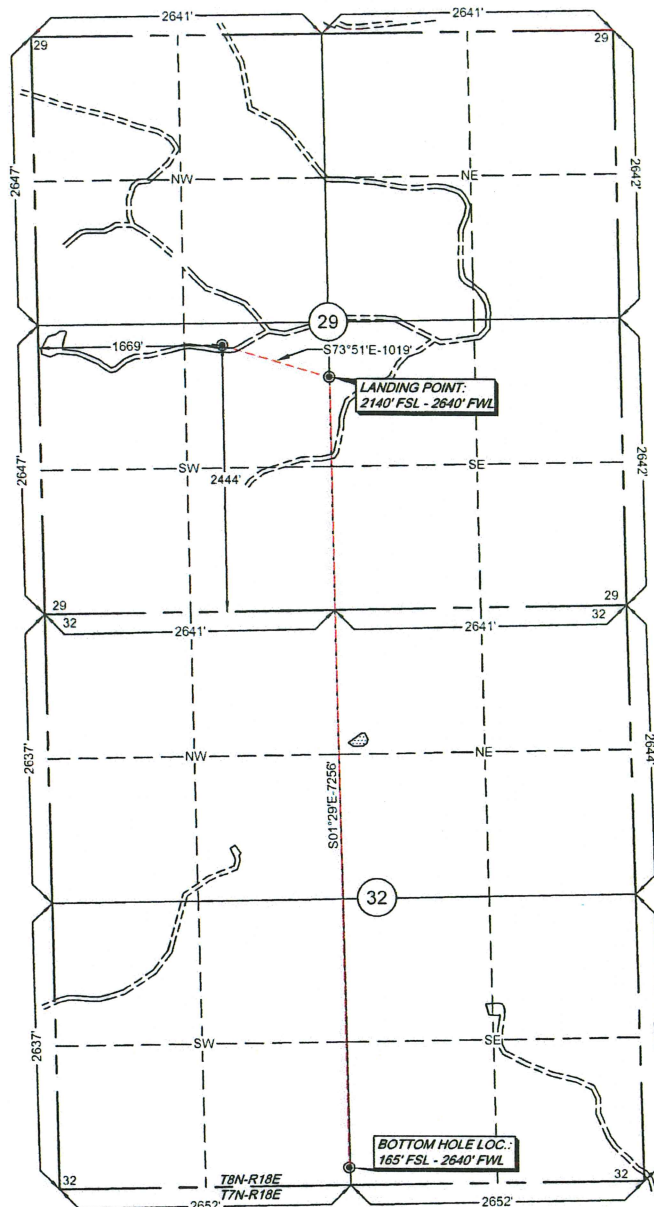
Bottom Hole Loc.:

Lat: 35°07'01.83"N

Lon: 95°25'44.13"W

X: 2737342

Y: 658985



Please note that this location was staked on the ground under the supervision of a Licensed Professional Land Surveyor. The accuracy of this survey is based on the GPS data collected on the ground. The accuracy of this survey is based on the GPS data collected on the ground. The accuracy of this survey is based on the GPS data collected on the ground.

NOTE: X and Y data shown herein is station corners may NOT have been surveyed on the ground, and further, does NOT represent a true boundary survey. The accuracy of this survey is based on the GPS data collected on the ground. The accuracy of this survey is based on the GPS data collected on the ground. The accuracy of this survey is based on the GPS data collected on the ground.

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 #7931-B
Date Staked: 06/22/18 By: H.S.
Date Drawn: 06/29/18 By: K.B.

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

07/02/18

OK LPLS 1664

