API NUMBER: 121 24835

Oil & Gas

Horizontal Hole

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

Approval Date: 12/07/2018
Expiration Date: 06/07/2020

PERMIT TO DRILL

WELL LOCATION: Sec: 28 Twp: 8N Rge: 18E County: PITTSBURG

SPOT LOCATION: SE NE SW NW FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 1929 1074

Lease Name: SATTERFIELD Well No: 4H-28 Well will be 1074 feet from nearest unit or lease boundary.

Operator RED MOUNTAIN OPERATING LLC Telephone: 4058424500 OTC/OCC Number: 23694 0

RED MOUNTAIN OPERATING LLC

5901 N WESTERN AVE

OKLAHOMA CITY, OK 73118-1253

DENNIS SATTERFIELD

P O BOX 284

QUINTON OK 74561

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	7199	6	
2	MAYES	7511	7	
3	WOODFORD	7651	8	
4	HUNTON	7713	9	
5			10	
Spacing Orders:	679486	Location Exception Orders: 6846	694	Increased Density Orders:

Pending CD Numbers: Special Orders:

Total Depth: 16245 Ground Elevation: 1020 Surface Casing: 320 Depth to base of Treatable Water-Bearing FM: 270

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: 8000 Average: 5000

Is depth to top of ground water greater than 10ft below base of pit? $\quad \mbox{Y}$

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: 18-35676

H. SEE MEMO

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 33 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: 7151 Radius of Turn: 826 Direction: 175

Total Length: 7796

Measured Total Depth: 16245

True Vertical Depth: 7713

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

Notes:

Category Description

HYDRAULIC FRACTURING 11/6/2018 - 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

LOCATION EXCEPTION - 684694 12/6/2018 - G58 - (I.O.) 28 & 33-8N-18E

X679486 MYES, WDFD, HNTN 28-8N-18E X679487 MSSP, WDFD, HNTN 33-8N-18E

SHL 2640' FNL, 1500' FEL***

COMPL. INT. 28-8N-18E NCT 2640' FNL, NCT 0' FSL, NCT 1320' FEL COMPL. INT. 33-8N-18E NCT 0' FNL, NCT 165' FSL, NCT 1320' FEL

RED MOUNTAIN OPERATING, LLC

10/10/2018

***PLAT SHOWS SHL AT 1929' FNL, 1074' FWL; WILL BE CORRECTED AT HEARING PER

ATTORNEY FOR OP.

MEMO 11/6/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 -

OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

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 24835 SATTERFIELD 4H-28

Category Description

SPACING - 679486 12/6/2018 - G58 - (640)(HOR) 28-8N-18E

EST MYES, WDFD, HNTN

COMPL. INT. (MYES, HNTN) NLT 660' FB

COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL

**SHOULD COEXIST WITH SP. ORDER 125682 HNTN; WILL FILE NPT PER ATTORNEY FOR OP.

SPACING - 679487 12/6/2018 - G58 - (640)(HOR) 33-8N-18E

EST OTHER

EXT 665457 MSSP, WDFD, HNTN COMPL. INT. (MSSP, HNTN) NLT 660' FB

COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL

(COEXIST SP. ORDER 125582** HNTN)

**S/B SP. ORDER 125682 HNTN; WILL FILE NPT PER ATTORNEY FOR OP.

SPACING - 684614 12/6/2018 - G58 - (I.O.) 28 & 33-8N-18E

EST MULTIUNIT HORÍZONTAL WELL X679486 MYES, WDFD, HNTN 28-8N-18E X679487 MSSP, WDFD, HNTN 33-8N-18E

33% 28-8N-18E 67% 33-8N-18E

RED MOUNTAIN OPERATING, LLC

10/9/2018



OUNTAIN ENERGY, LLC Well Location Plat

S.H.L. Sec. 28-8N-18E I.M. B.H.L. Sec. 33-8N-18E I.M.

Operator: RED MOUNTAIN ENERGY, LLC Lease Name and No.: SATTERFIELD 4H-28

121-24835 Footage: 1929' FNL - 1074' FWL Gr. Elevation: 1020'

Section: 28 Township: 8N Range: 18E I.M.

County: Pittsburg State of Oklahoma

Terrain at Loc.: Location fell on top of a hill slightly in trees.





1" = 1320' **GPS DATUM NAD 83** OK SOUTH ZONE

Surface Hole Loc .: Lat: 35°08'25.50"N Lon: 95°24'59.44"W Lat: 35.14041636 Lon: -95.41651039 X: 2740837 Y: 667536 Top Perf:

Lat: 35°08'18.86"N Lon: 95°24'39.46"W Lat: 35.13857353 Lon: -95.41096133 X: 2742513 Y: 666908 Bottom Hole Loc.:

Lat: 35°07'01.75"N Lon: 95°24'40.30"W Lat: 35.11715146 Lon: -95.41119362 X: 2742643 Y: 659112

-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 #7930-A-B

Date Staked: 10/05/18 Date Drawn: 10/10/18 By: M.G. By: E.W. By: D.B. Revise Perf: 11/02/18

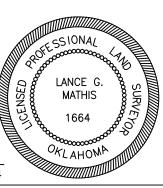
Certification:

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.



11/05/18

OK LPLS 1664





OUNTAIN ENERGY, LLC Well Location Plat

S.H.L. Sec. 28-8N-18E I.M. B.H.L. Sec. 33-8N-18E I.M.

121-24835

Operator: RED MOUNTAIN ENERGY, LLC Lease Name and No.: SATTERFIELD 4H-28

Footage: 1929' FNL - 1074' FWL Gr. Elevation: 1020'

Section: 28 Township: 8N Range: 18E I.M.

County: Pittsburg State of Oklahoma

Terrain at Loc.: Location fell on top of a hill slightly in trees.



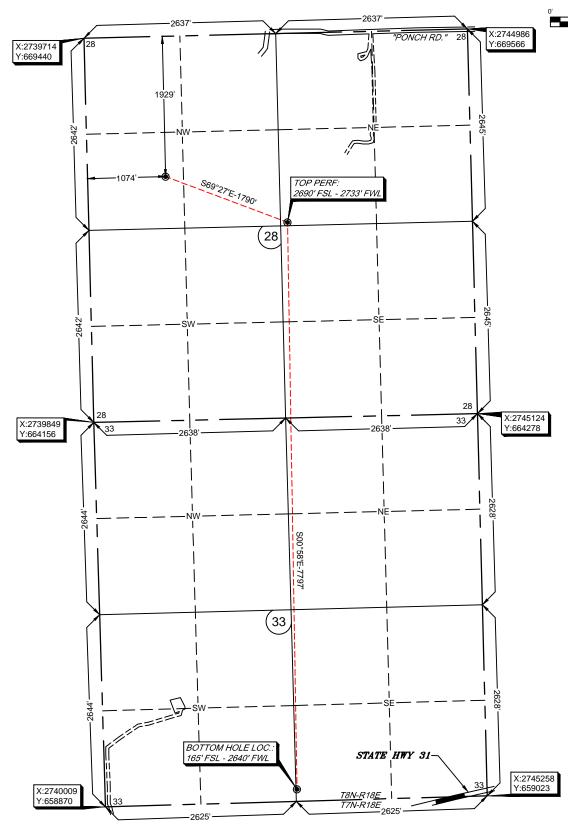
1" = 1320'

Y: 667536 Top Perf:

Lat: 35°08'18.86"N

Lon: 95°24'39.46"W Lat: 35.13857353 Lon: -95.41096133 X: 2742513 Y: 666908 Bottom Hole Loc.: Lat: 35°07'01.75"N Lon: 95°24'40.30"W Lat: 35.11715146 Lon: -95.41119362 X: 2742643 Y: 659112

GPS DATUM NAD 83 OK SOUTH ZONE Surface Hole Loc .: Lat: 35°08'25.50"N Lon: 95°24'59.44"W Lat: 35.14041636 Lon: -95.41651039 X: 2740837



-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.
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Survey and plat by:

Arkoma Surveying and Mapping, PLLC P.O. Box 238 Wilburton, OK 74578

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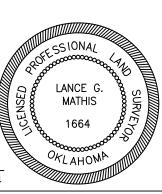
Certification:

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.



11/05/18

OK LPLS 1664





Topographic Vicinity Map

Operator: RED MOUNTAIN ENERGY, LLC Lease Name and No.: SATTERFIELD 4H-28 Surface Hole Location: 1929' FNL - 1074' FWL

Top Perf: 2690' FSL - 2733' FWL Sec. 28 Twp. 8N Rng. 18E I.M.

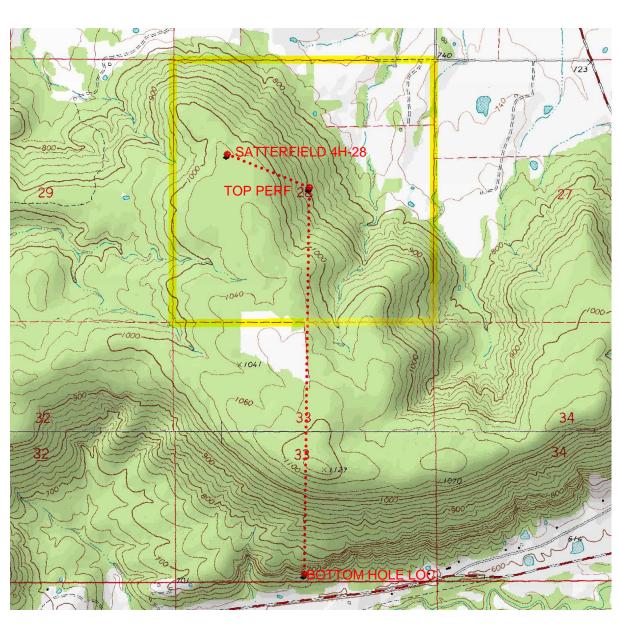
Bottom Hole Location: 165' FSL - 2640' FWL

Sec. 33 Twp. 8N Rng. 18E I.M. County: Pittsburg State of Oklahoma

Ground Elevation at Surface Hole Location: 1020'



Scale 1" = 2000' Contour Interval: 20'



Provided 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

Date Staked: 10/05/18

The purpose of this map is to verify the location and elevation as staked on the ground and to show the surrounding Topographic features. The footage shown hereon is only as SCALED onto a U.S.G.S. Topographic Map.

Please note that this location was staked carefully 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.

