

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

API NUMBER: 151 24571

Approval Date: 06/25/2019

Expiration Date: 12/25/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 34 Twp: 29N Rge: 17W

County: WOODS

SPOT LOCATION:

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 220 1998

Lease Name: BUSH 3-28-17

Well No: 1H

Well will be 220 feet from nearest unit or lease boundary.

Operator Name: BCE-MACH LLC

Telephone: 4052528151

OTC/OCC Number: 24174 0

BCE-MACH LLC
14201 WIRELESS WAY STE 300
OKLAHOMA CITY, OK 73134-2512

GEORGE BUSH
37500 CR 250
ALVA OK 73717

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	5435	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 694264

Location Exception Orders: 695382

Increased Density Orders:

Pending CD Numbers: 201902006

Special Orders:

Total Depth: 10800

Ground Elevation: 1848

Surface Casing: 460

Depth to base of Treatable Water-Bearing FM: 410

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: 25000 Average: 8000

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: DOG CREEK

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-35868
H. CLOSED SYSTEM = STEEL PITS (REQUIRED - YELLOWSTONE CREEK)

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 03 Twp 28N Rge 17W County WOODS

Spot Location of End Point: SW SW SE SW

Feet From: SOUTH 1/4 Section Line: 150

Feet From: WEST 1/4 Section Line: 1560

Depth of Deviation: 4941

Radius of Turn: 547

Direction: 178

Total Length: 5000

Measured Total Depth: 10800

True Vertical Depth: 5495

End Point Location from Lease,
Unit, or Property Line: 150

Notes:

Category

Description

HYDRAULIC FRACTURING

5/28/2019 - 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

LOCATION EXCEPTION - 695382

6/11/2019 - GB1 - (I.O.) 3-28N-17W
X694264 MSSP
COMPL. INT. NCT 150' FNL, NCT 150' FSL, NCT 1320' FWL
BCE-MACH LLC
4/30/2019

PENDING CD - 201902006

6/25/2019 - GB1 - NPT PARAGRAPH 8, 9, 10, 11, AND 12 OF #695382 WAS NOT INCLUDED IN THE ORDER; WILL BE ADDED BACK IN STATING THE EXCEPTION TO 600' RULE, ALLOWABLE, PREVIOUS ORDERS, SPECIAL FINDINGS, AND REOPENING DATE.

SPACING - 694264

6/11/2019 - GB1 - (640)(HOR) 3-28N-17W
VAC 128274 CSTR
EST MSSP
COMPL. INT. NLT 660' FB
(COEXIST SPACING ORDER #238591 MISS)

This permit does not address the right of entry or settlement of surface damages.

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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.

151 24571 BUSH 3-28-17 1H

OPERATOR: MACH RESOURCES

LEASE NAME: BUSH 3-28-17

SECTION: 34

SURFACE HOLE FOOTAGE: 220' FSL - 1998' FEL

GROUND ELEVATION AT SURFACE HOLE: 1847.80'

LANDING POINT FOOTAGE: 600' FNL - 1560' FWL

BOTTOM HOLE FOOTAGE: 150' FSL - 1560' FWL

SECTION: 3

WELL NO.: 1H

TOWNSHIP: T29N

RANGE: R17W

TOWNSHIP: T28N

RANGE: R17W

COUNTY: WOODS

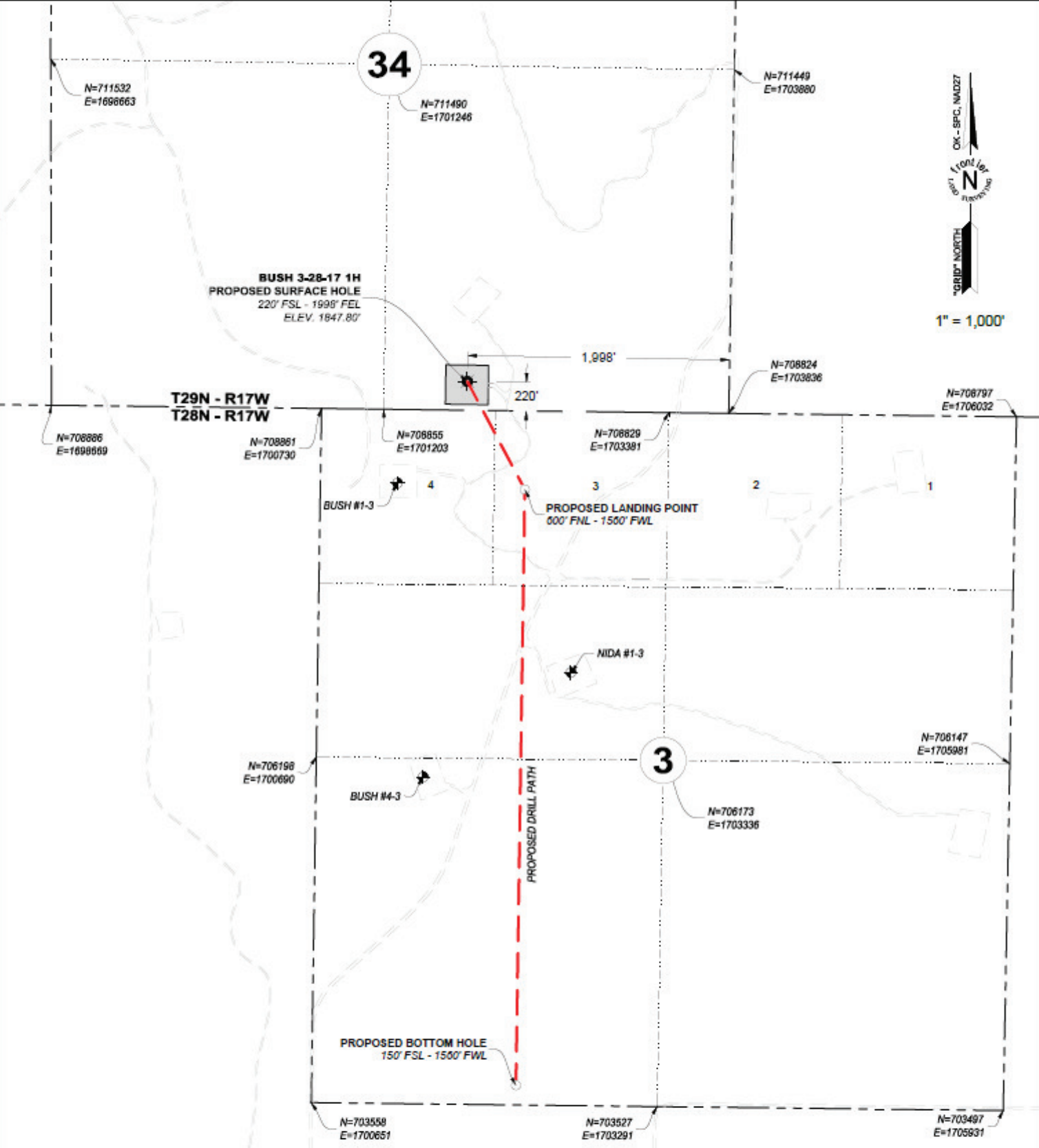
STATE: OKLAHOMA

ACCEPTABLE DRILL SITE? YES

TERRAIN: LOCATION FELL IN A FIELD, SLOPING SOUTH TO NORTH

ACCESSIBILITY TO LOCATION: FROM N2240 RD.

DIRECTIONS: FROM THE INTERSECTION OF HWY 64 AND N2230 RD, HEAD NORTH ON N2230 RD FOR 7.0 MILES AND TURN EAST ON E0075 RD. CONTINUE EAST FOR 1.0 MILES AND TURN NORTH ON N2240 RD. GO NORTH 2.4 MILES TO LEASE RD TURN WEST AND FOLLOW LEASE RD FOR 4 MILES THEN WEST INTO.



BUSH 3-28-17 1H

PROPOSED SURFACE HOLE

220' FSL - 1998' FEL

LAT: 36.94354194

LONG: -99.02017723

N= 709067.7

E= 1701842.2

PROPOSED LANDING POINT

600' FNL - 1560' FWL

LAT: 36.94128793

LONG: -99.01864822

N= 708242.4

E= 1702280.4

PROPOSED BOTTOM HOLE

150' FSL - 1560' FWL

LAT: 36.92878252

LONG: -99.01871629

N= 703689.6

E= 1702212.8

ADAM K. HINDS
PROFESSIONAL LAND SURVEYOR # 1781

LICENCED PROFESSIONAL LAND SURVEYOR

ADAM K. HINDS

5/23/19

1781

OKLAHOMA

PLEASE NOTE THAT THIS LOCATION WAS STAKED ON THE GROUND UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL LAND SURVEYOR. THE ACCURACY OF THIS EXHIBIT IS NOT GUARANTEED. PLEASE CONTACT FRONTIER LAND SURVEYING PROMPTLY IF ANY INCONSISTENCY IS DETERMINED. GPS DATA IS OBSERVED FROM RTK-GPS.

X AND Y DATA SHOWN HEREON FOR SECTION CORNERS MAY NOT HAVE BEEN SURVEYED ON THE GROUND, AND FURTHERMORE THIS EXHIBIT DOES NOT REPRESENT A TRUE BOUNDARY SURVEY.

QUARTER SECTION DISTANCE 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.

ALL VALUES LISTED ARE IN NAD27 HORIZONTALLY AND NAVD83 VERTICALLY.

THE LOCATION OF EXISTING WELLS SHOWN ARE APPROXIMATE FROM OKLAHOMA CORPORATION COMMISSION DATA PROVIDED BY OTHERS.

frontier
LAND SURVEYING

405, 285, 8100
600 W. 18th STREET EDMOND, OK 73003

FLS-Survey.com

CA #7232 EXP. 6/30/20

ALLEGiant

Land Services & Consulting

311 N. MAIN STREET SEILING, OK 73963

580, 922, 0395

BUSH 3-28-17 1H

SHL: 220' FSL - 1998' FEL

BHL: 150' FSL - 1560' FWL

LOCATED IN THE SE/4 OF SECTION 34

T29N - R17W I.M.

WOODS COUNTY, OKLAHOMA

MACH

RESOURCES

14201 WIRELESS WAY OKC, OK 73134

405, 252, 8100

DWG DATE: 04/24/19

DRAWN BY: AKH

CHK'D BY: JWS

STAKED DATE: 04/18/19

FLS#: 19-0068

SHEET #: 1 OF 5

REV. DWN.

DESCRIPTION

DATE:

R1

MDM

CHANGE WELL LOCATION

5/21/19