

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

API NUMBER: 151 24581

Approval Date: 11/12/2019

Expiration Date: 05/12/2021

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 12 Twp: 27N Rge: 17W

County: WOODS

SPOT LOCATION: ☐ SW ☐ SW ☐ SE ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 142 1167

Lease Name: BATES 13-27-17

Well No: 1H

Well will be 142 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

ELVIN R. BATES JR., LAND AND CATTLE COMPANY LLC  
27885 JEFFERSON RD.  
ALVA OK 73717

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	5750	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 704663

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201904905

Special Orders:

Total Depth: 11097

Ground Elevation: 1836

**Surface Casing: 680**

Depth to base of Treatable Water-Bearing FM: 630

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: DOG CREEK

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 19-37060  
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 18 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 13 Twp 27N Rge 17W County WOODS

Spot Location of End Point: S2 S2 SW SE

Feet From: SOUTH 1/4 Section Line: 150

Feet From: EAST 1/4 Section Line: 1980

Depth of Deviation: 5090

Radius of Turn: 532

Direction: 189

Total Length: 5172

Measured Total Depth: 11097

True Vertical Depth: 5825

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

Notes:

Category

Description

HYDRAULIC FRACTURING

10/28/2019 - 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](http://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](http://FRACFOCUS.ORG)

PENDING CD - 201904905

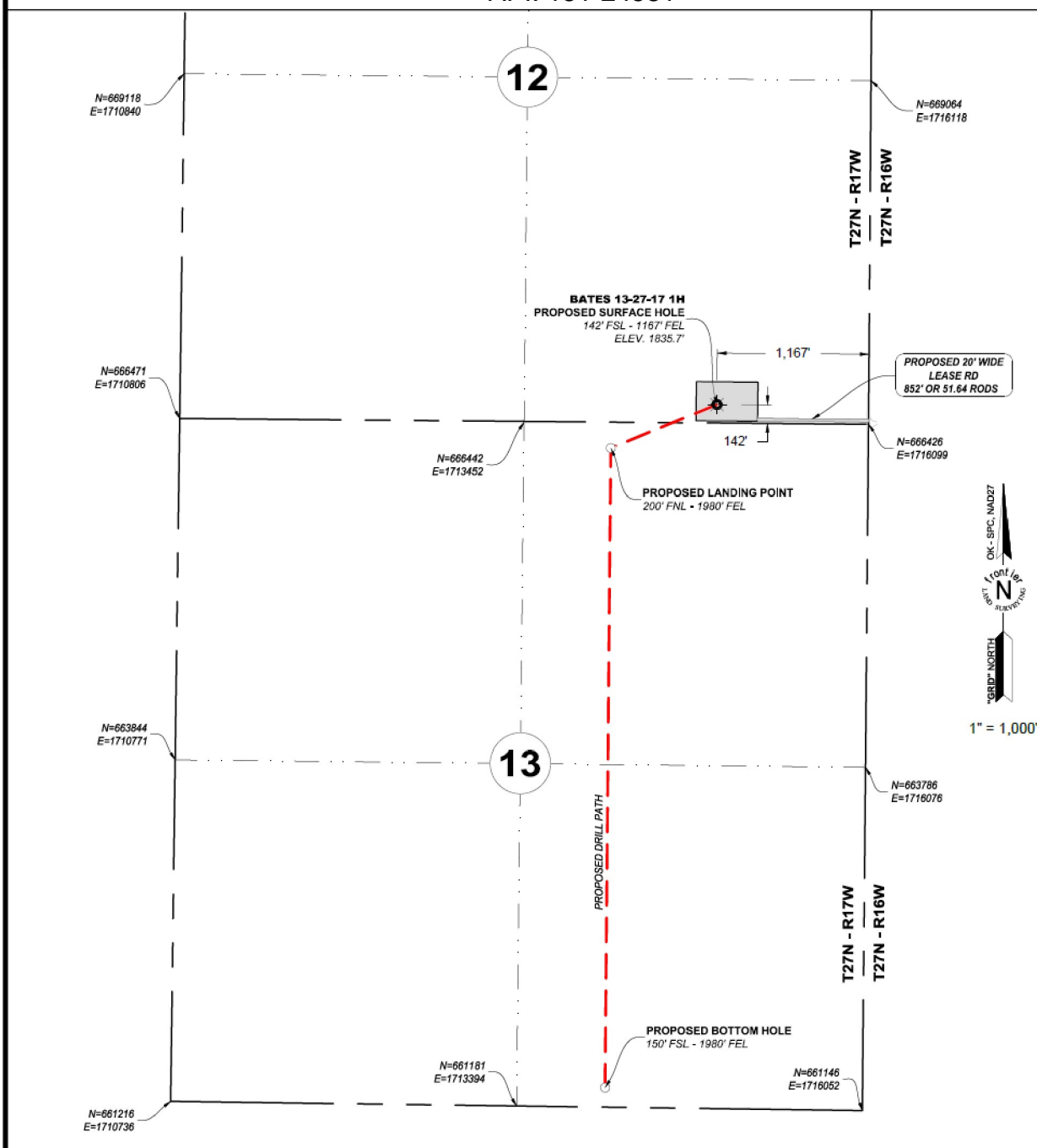
11/12/2019 - GC2 - (I.O.) 13-27N-17W  
X704663 MSSP  
COMPL. INT. NCT 150' FNL, NCT 150' FSL, NCT 660' FEL  
NO OP. NAMED  
REC. 10/21/2019 (NORRIS)

SPACING - 704663

11/12/2019 - GC2 - (640)(HOR) 13-27N-17W  
EXT 624030 MSSP  
VAC 31735 MSSLM  
COMPL. INT. NCT 660' FB

OPERATOR: **MACH RESOURCES**COUNTY: **WOODS**STATE: **OKLAHOMA**LEASE NAME: **BATES 13-27-17** WELL NO.: **1H**ACCEPTABLE DRILL SITE? **YES**SECTION: **12** TOWNSHIP: **27N** RANGE: **17W**TERRAIN: **LOCATION IN A FIELD, SLOPING EAST TO WEST**SURFACE HOLE FOOTAGE: **142' FSL - 1167' FEL (SECTION 12)**ACCESSIBILITY TO LOCATION: **FROM EAST LINE**GROUND ELEVATION AT SURFACE HOLE: **1835.7'**DIRECTIONS: **FROM THE INTERSECTION OF HWY 64 AND N2270 RD HEAD NORTH FOR 2.0 MILES TOWARDS E0130 RD TURN WEST INTO PROPOSED LEASE RD.**LANDING POINT FOOTAGE: **200' FNL - 1980' FEL (SECTION 13)**BOTTOM HOLE FOOTAGE: **150' FSL - 1980' FEL (SECTION 13)**SECTION: **13** TOWNSHIP: **27N** RANGE: **17W**

API: 151-24581

**BATES 13-27-17 1H**LANDING POINT, BOTTOM HOLE, AND DRILL PATH  
INFORMATION PROVIDED BY OPERATOR LISTED.**PROPOSED SURFACE HOLE**

142' FSL - 1167' FEL  
LAT: 36.82721753  
LONG: -98.97393049  
N= 666578.2  
E= 1714933.0

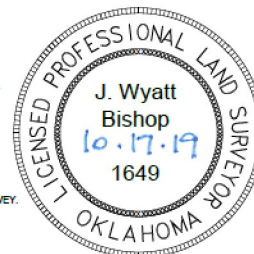
**PROPOSED LANDING POINT**

200' FNL - 1980' FEL  
LAT: 36.82627465  
LONG: -98.97670498  
N= 666243.1  
E= 1714117.5

**PROPOSED BOTTOM HOLE**

150' FSL - 1980' FEL  
LAT: 36.81275766  
LONG: -98.97668736  
N= 661322.0  
E= 1714073.1

J. Wyatt Bishop  
PROFESSIONAL LAND SURVEYOR # 1649



- 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 **NAD83** HORIZONTALLY AND **NAVD83** VERTICALLY.
- THE LOCATION OF EXISTING WELLS SHOWN ARE APPROXIMATE FROM OKLAHOMA CORPORATION COMMISSION DATA PROVIDED BY OTHERS.

**frontier**  
LAND SURVEYING  
405.285.0433  
620 W. 18th STREET EDMOND, OK 73012  
F.L.Survey.com  
CA #7232 EXP. 6/30/20

**ALLEGiant**  
Land Services & Consulting  
311 N. MAIN STREET SELWING, OK 73863  
580.922.0356

**BATES 13-27-17 1H**

SHL: 142' FSL - 1167' FEL (SECTION 12)

BHL: 150' FSL - 1980' FEL (SECTION 13)

LOCATED IN THE SE/4 OF SECTION 12

27N - 17W I.M.

WOODS COUNTY, OKLAHOMA

**MACH**  
RESOURCES

14201 WIRELESS WAY OKC, OK 73134

405.282.8100

DWG DATE: 10/16/19 DRAWN BY: JFG CHK'D BY: JWB

STAKED DATE: 10/15/19 FLS #: 19-0171-13 SHEET #: 1 OF 5

REV. DWN. DESCRIPTION DATE: