

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

API NUMBER: 151 24559

Approval Date: 03/13/2019

Expiration Date: 09/13/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 13 Twp: 29N Rge: 14W County: WOODS
SPOT LOCATION: ☐ SE ☐ SE ☐ SW ☐ SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 205 1505

Lease Name: LJM 13-29-14 Well No: 1H Well will be 205 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

LEE MACKEY LLC
PO BOX 852
ALVA OK 73717

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

| Name | Depth | Name | Depth |
|-----------------|-------|------|-------|
| 1 MISSISSIPPIAN | 4857 | 6 | |
| 2 | | 7 | |
| 3 | | 8 | |
| 4 | | 9 | |
| 5 | | 10 | |

Spacing Orders: 597026

Location Exception Orders: 692284

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 9829 Ground Elevation: 1400 Surface Casing: 290 Depth to base of Treatable Water-Bearing FM: 240

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 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: 19-36269
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 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 13 Twp 29N Rge 14W County WOODS

Spot Location of End Point: N2 N2 NE NE

Feet From: NORTH 1/4 Section Line: 150

Feet From: EAST 1/4 Section Line: 660

Depth of Deviation: 4700

Radius of Turn: 907

Direction: 12

Total Length: 3704

Measured Total Depth: 9829

True Vertical Depth: 4950

End Point Location from Lease,

Unit, or Property Line: 150

Notes:

Category

Description

HYDRAULIC FRACTURING

3/1/2019 - 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 - 692284

3/13/2019 - G58 - (I.O.) 13-29N-14W
X597026 MSSP
COMPL. INT. NCT 150' FSL, NCT 0' FNL, NCT 330' FEL
BCE-MACH LLC
3/1/2019

SPACING - 597026

3/13/2019 - G58 - (640) 13-29N-14W
EXT OTHER
EST OTHERS
EXT 79029 MSSP

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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 24559 LJM 13-29-14 1H

OPERATOR: MACH RESOURCES

LEASE NAME: LJM 13-29-14 WELL NO.: 1H

SECTION 13, TOWNSHIP 29N - RANGE 14W

SURFACE HOLE FOOTAGE: 205' FSL - 1,505' FEL

GROUND ELEVATION AT SURFACE HOLE: 1399.6'

LANDING POINT FOOTAGE: 805' FSL - 660' FEL

BOTTOM HOLE FOOTAGE: 150' FNL - 660' FEL

SECTION 13, TOWNSHIP 29N - RANGE 14W

COUNTY: WOODS STATE: OKLAHOMA

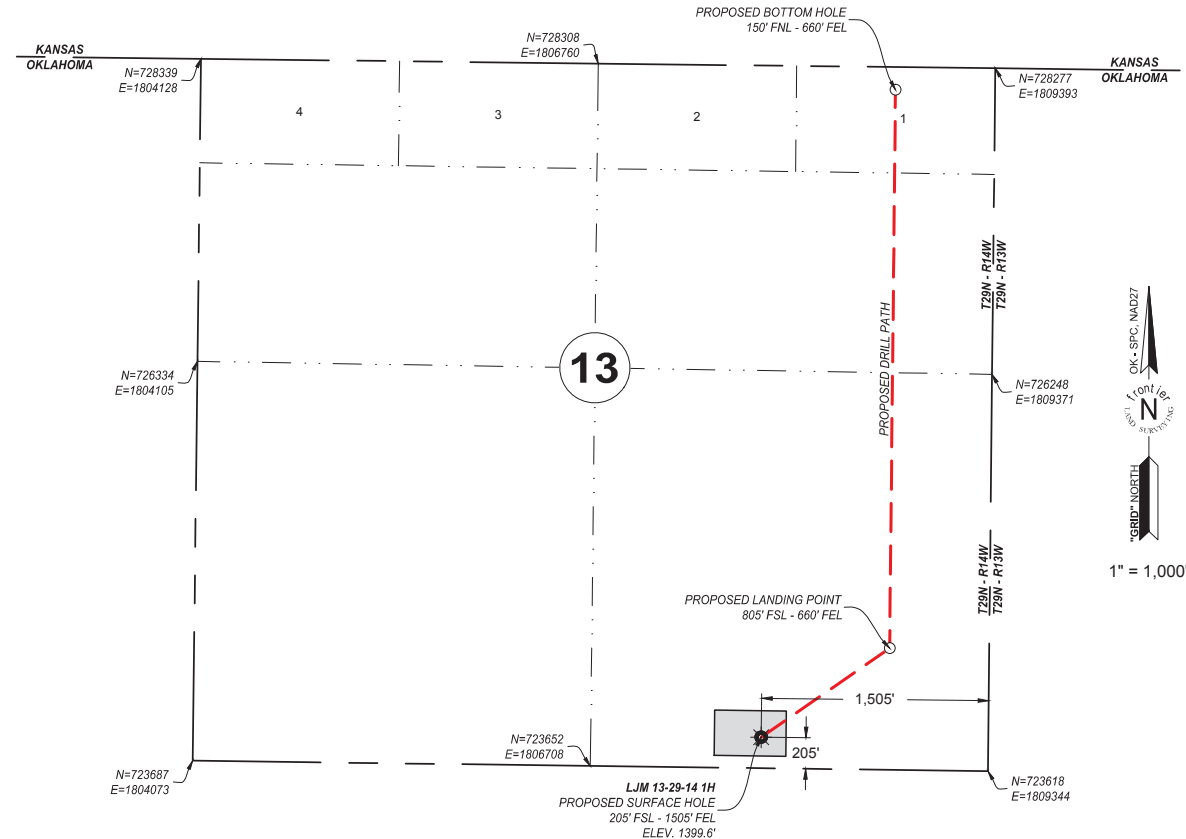
ACCEPTABLE DRILL SITE? YES

TERRAIN: LOCATION FELL IN A FIELD, SLOPING FROM WEST TO EAST

ACCESSIBILITY TO LOCATION: FROM SOUTH LINE

LOCATION RELATIVE TO NEAREST TOWN OR HWY JUNCTION: FROM THE INTERSECTION OF CENTRAL AVE. AND US-281 IN HARDTNER, KS. HEAD SOUTH ON US-281 FOR 2.0 MILES AND TURN WEST ON E0020 RD. CONTINUE WEST FOR 0.3 MILES THEN NORTH INTO.

151-24559



LJM 13-29-14 1H

LANDING POINT, BOTTOM HOLE, AND DRILL PATH
INFORMATION PROVIDED BY OPERATOR LISTED.

PROPOSED SURFACE HOLE

205' FSL - 1505' FEL
LAT: 36.98663556
LONG: -98.65784872
N= 723842.8
E= 1807840.9

PROPOSED LANDING POINT

805' FSL - 660' FEL
LAT: 36.98826907
LONG: -98.65494825
N= 724431.8
E= 1808692.1

PROPOSED BOTTOM HOLE

150' FNL - 660' FEL
LAT: 36.99843869
LONG: -98.65490063
N= 728134.5
E= 1808731.0

Adam K. Hinds
ADAM K. HINDS
PROFESSIONAL LAND SURVEYOR # 1781



- 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 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 **NAD83** VERTICALLY.

frontier
LAND SURVEYING
405, 285, 0433
600 W. 10th STREET EDMOND, OK 73013
FLS-Survey.com
CA #7232 EXP: 6/30/20

ALLEGiant
Land Services & Consulting
311 N. MAIN STREET SELWING, OK 73663
580, 922, 0356

LJM 13-29-14 1H

SHL: 205' FSL - 1505' FEL
BHL: 150' FNL - 660' FEL

LOCATED IN THE SE/4 OF SECTION 13
T29N - R14W I.M.
WOODS COUNTY, OKLAHOMA

MACH
RESOURCES

14201 WIRELESS WAY OKC, OK 73134 405, 252, 8100

| | | | | | |
|--------------|----------|----------------------------------|---------|-----------|--------|
| DWG DATE: | 02/12/19 | DRAWN BY: | AKH | CHK'D BY: | AKH |
| STAKED DATE: | 02/06/19 | FLS#: | 19-0017 | SHEET #: | 1 OF 5 |
| REV. | DWN. | DESCRIPTION | DATE: | | |
| 1 | AKH | ADDED PAD ACREAGE AND OWNER NAME | 2/14/19 | | |