

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

API NUMBER: 151 24568

Approval Date: 06/12/2019

Expiration Date: 12/12/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 18 Twp: 28N Rge: 16W

County: WOODS

SPOT LOCATION:

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 187 283

Lease Name: CUNNINGHAM 13-28-17

Well No: 3H

Well will be 187 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

RICK & JANET L. CUNNINGHAM
705 OKLAHOMA BLVD.
ALVA OK 73717

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

Name	Depth	Name	Depth
1	MISSISSIPPI	5540	6
2			7
3			8
4			9
5			10

Spacing Orders: 97151

Location Exception Orders: 696965

Increased Density Orders:

Pending CD Numbers: 201902806

Special Orders:

Total Depth: 11100

Ground Elevation: 1892

Surface Casing: 530

Depth to base of Treatable Water-Bearing FM: 480

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 BED AQUIFER

Pit Location Formation: MARLOW

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

PERMIT NO: 19-36612

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 28N Rge 17W County WOODS

Spot Location of End Point: S2 S2 SE SE

Feet From: SOUTH 1/4 Section Line: 150

Feet From: EAST 1/4 Section Line: 660

Depth of Deviation: 5061

Radius of Turn: 547

Direction: 191

Total Length: 5180

Measured Total Depth: 11100

True Vertical Depth: 5615

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

Notes:

Category

Description

HYDRAULIC FRACTURING

6/10/2019 - 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 - 696965

6/12/2019 - GB1 - (I.O.) 13-28N-17W
X97151 MISS
COMPL. INT. NCT 150' FNL, NCT 150' FSL, NCT 330' FEL
BCE-MACH, LLC
5/31/2019

PENDING CD - 201902806

6/12/2019 - GB1 - 13-28N-17W
X97151 MISS
1 WELL
NO OP. NAMED
REC. 6/3/2019 (P. PORTER)

SPACING - 97151

6/12/2019 - GB1 - (640) 13-28N-17W
EST OTHERS
EXT 47686/64042 MISS, OTHERS

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

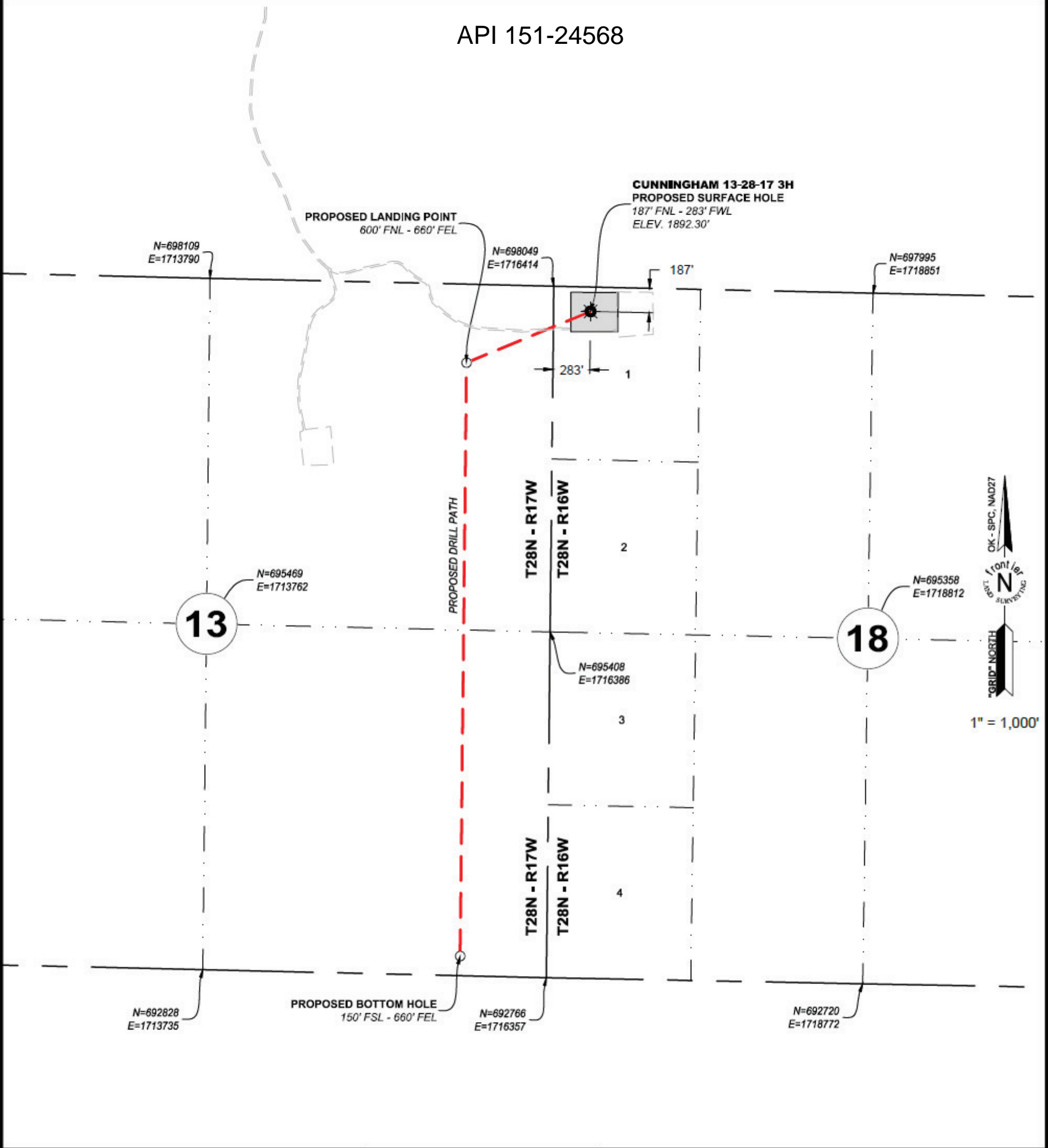
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151 24568 CUNNINGHAM 13-28-17 3H

OPERATOR: **MACH RESOURCES**
LEASE NAME: **CUNNINGHAM 13-28-17** WELL NO.: **3H**
SECTION: **18** TOWNSHIP: **28N** RANGE: **16W**
SURFACE HOLE FOOTAGE: **187' FNL - 283' FWL**
GROUND ELEVATION AT SURFACE HOLE: **1892.30'**
LANDING POINT FOOTAGE: **600' FNL - 660' FEL**
BOTTOM HOLE FOOTAGE: **150' FSL - 660' FEL**
SECTION: **13** TOWNSHIP: **28N** RANGE: **17W**

COUNTY: **WOODS** STATE: **OKLAHOMA**
ACCEPTABLE DRILL SITE? **YES**
TERRAIN: **LOCATION FELL IN A FIELD, SLOPING FROM SOUTHWEST TO NORTHEAST, WEST OF EXISTING LOCATION.**
ACCESSIBILITY TO LOCATION: **FROM WEST LINE**
DIRECTIONS: **FROM THE INTERSECTION OF HWY 64 AND N2260 RD. HEAD NORTH ON N2260 RD FOR 8.1 MILES AND TURN EAST ON LEASE RD. CONTINUE EAST ALONG LEASE RD FOR 1.5 MILES THEN EAST INTO.**



CUNNINGHAM 13-28-17 3H

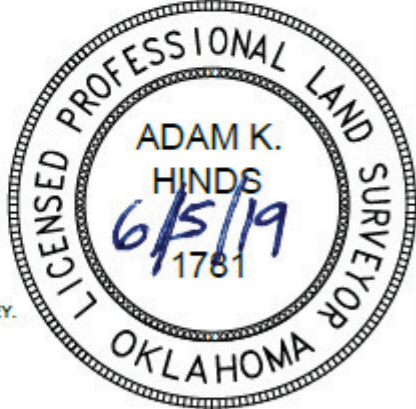
LANDING POINT, BOTTOM HOLE, AND DRILL PATH
INFORMATION PROVIDED BY OPERATOR LISTED.

PROPOSED SURFACE HOLE
187' FNL - 283' FWL
LAT: 36.91316761
LONG: -98.96897968
N= 697855.7
E= 1716694.3

PROPOSED LANDING POINT
600' FNL - 660' FEL
LAT: 36.91206683
LONG: -98.97220450
N= 697464.4
E= 1715747.5

PROPOSED BOTTOM HOLE
150' FSL - 660' FEL
LAT: 36.89961629
LONG: -98.97221480
N= 692931.5
E= 1715699.1

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 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 NAVD88 VERTICALLY.
- THE LOCATION OF EXISTING WELLS SHOWN ARE APPROXIMATE FROM OKLAHOMA CORPORATION COMMISSION DATA PROVIDED BY OTHERS.

frontier
LAND SURVEYING
405, 285, 0433
600 W. 18th STREET EDMOND, OK 73018
FLS-Survey.com
CA #7232 EXP: 6/30/20

ALLEGiant
Land Services & Consulting
311 N. MAIN STREET SEILING, OK 73663
580, 922, 0368

CUNNINGHAM 13-28-17 3H

SHL: 187' FNL - 283' FWL
BHL: 150' FSL - 660' FEL

LOCATED IN THE NW/4 OF SECTION 18
28N - 16W I.M.
WOODS COUNTY, OKLAHOMA

MACH
RESOURCES

14201 WIRELESS WAY OKC, OK 73134			405, 252, 8100		
DWG DATE:	5/16/19	DRAWN BY:	JPG	CHK'D BY:	JWB
STAKED DATE:	5/15/19	FLS#:	19-0080	SHEET #:	1 OF 5
REV.	DWN.	DESCRIPTION			DATE:
R1	JMB	MOVE PAD SITE			5/31/19
R2	MDM	MOVE PAD SITE, SHL, CHANGE NAME			6/04/19