

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

API NUMBER: 083 24450

Approval Date: 03/22/2019

Expiration Date: 09/22/2020

Horizontal Hole

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 33 Twp: 15N Rge: 4W

County: LOGAN

SPOT LOCATION:

NW

SW

NW

SW

FEET FROM QUARTER: FROM

SOUTH

FROM

WEST

SECTION LINES:

1705

282

Lease Name: THE MOUNTAIN 1504 33-04

Well No: 2BH

Well will be 282 feet from nearest unit or lease boundary.

Operator Name: REVOLUTION RESOURCES LLC

Telephone: 4055345232

OTC/OCC Number: 24162 0

REVOLUTION RESOURCES LLC
14301 CALIBER DR STE 110
OKLAHOMA CITY, OK 73134-1016

CHADDUCK HOLDINGS, LTD.
P.O. BOX 260529
PLANO TX 75026

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

Name	Depth	Name	Depth
1 HUNTON	6715	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 20212

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 14674

Ground Elevation: 1112

Surface Casing: 800

Depth to base of Treatable Water-Bearing FM: 570

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: 5000 Average: 2500

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: SALT PLAINS

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

PERMIT NO: 19-36260

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 09 Twp 14N Rge 4W County OKLAHOMA

Spot Location of End Point: SE NE NW NW

Feet From: NORTH 1/4 Section Line: 500

Feet From: WEST 1/4 Section Line: 1300

Depth of Deviation: 6120

Radius of Turn: 573

Direction: 185

Total Length: 7653

Measured Total Depth: 14674

True Vertical Depth: 6745

End Point Location from Lease,
Unit, or Property Line: 1300

Notes:

Category

Description

HYDRAULIC FRACTURING

2/19/2019 - 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

SPACING - 20212

3/14/2019 - GA8 - (UNIT) W2, SE, W2 NE, SE NE 32 & S2 S2, NW SW 33-15N-4W, 5, 4, 8 & 9-14N-4W EST WEST EDMOND HUNTON LIME UNIT FOR HNTN

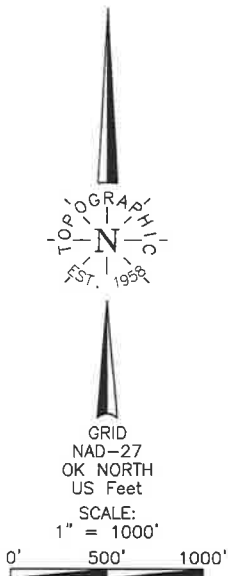
SURFACE CASING

2/19/2019 - G71 - MIN. 800' PER ORDERS 17431/17920

Logan

County, Oklahoma

1705'FSL-282'FWL Section 33 Township 15N Range 4W I.M.



LANDING POINT, BOTTOM HOLE, AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED.

THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY

Operator: REVOLUTION RESOURCES
Lease Name: THE MOUNTAIN 1504

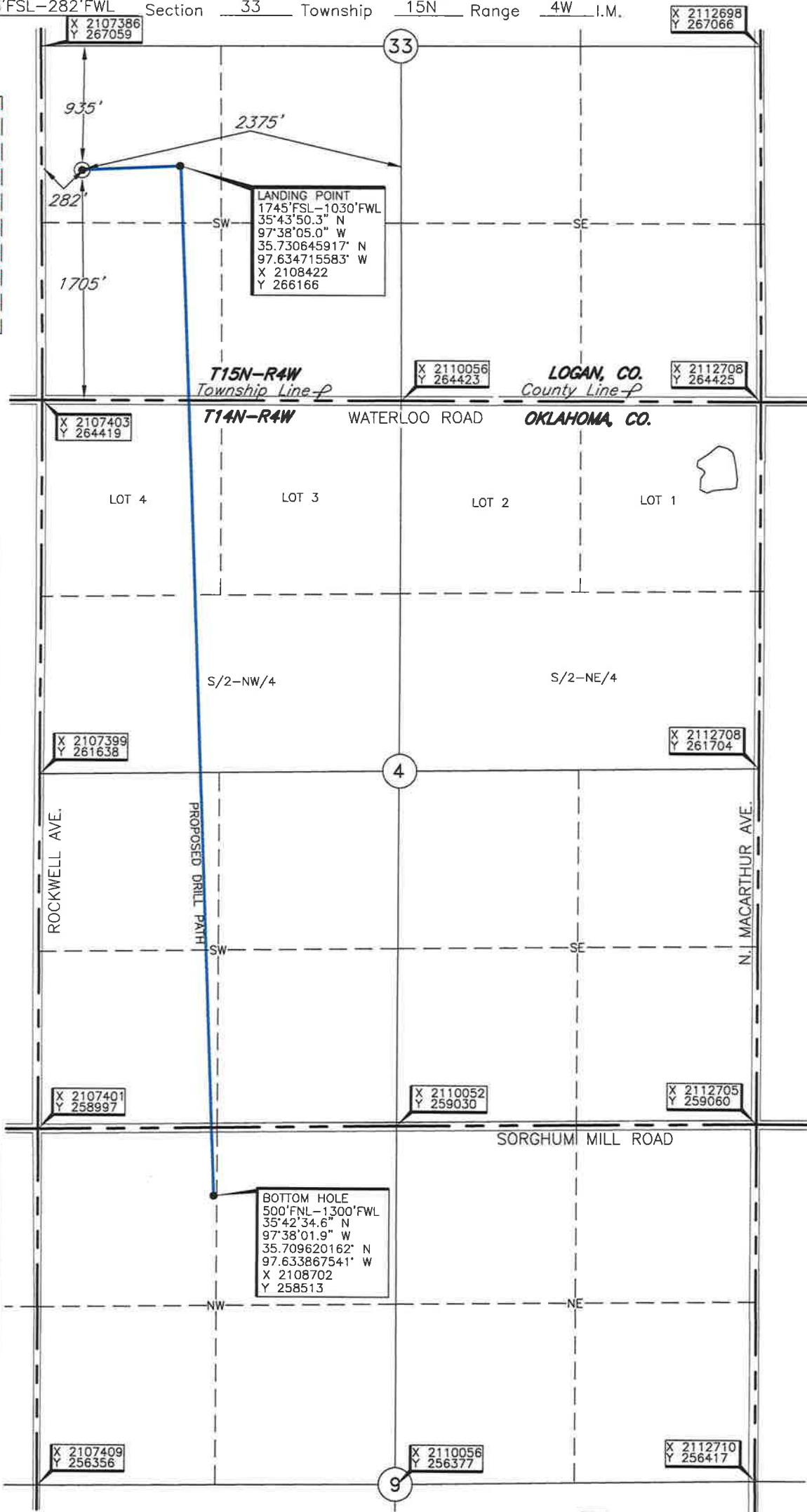
Topography & Vegetation Loc. fell in a pasture.

Good Drill Site? Yes

Reference Stakes or Alternate Location
Stakes Set None

Best Accessibility to Location From West off county road.
Distance & Direction From the intersection of Waterloo Rd. and St. Hwy 74, go West ±3.0 miles on Waterloo Rd., to the Southwest Corner of Section 33, T15N-R4W.

ELEVATION:
1112' at Gr. Stake



Revision ☒ B

Date of Drawing: March 19, 2019 ST

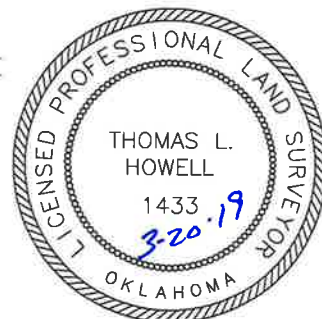
Invoice # 311743

Date Staked: Jan. 24, 2019

CERTIFICATE:

I, Thomas L. Howell an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein.

Thomas L. Howell
Oklahoma Lic. No. 1433



DATUM: NAD-27
LAT: 35°43'49.9" N
LONG: 97°38'14.0" W
LAT: 35.730539783° N
LONG: 97.637235766° W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 2107674
Y: 266124

This information was gathered with a GPS receiver with a 1 foot Horiz./Vert. accuracy

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

13800 Wireless Way, Okla. City, OK. 73134 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
Certificate of Authorization No. 1293 LS

Logan

County, Oklahoma

1705'FSL-282'FWL

Section 33

Township 15N

Range 4W

I.M.

X 2112698
Y 267066

X 2107386
Y 267059

LANDING POINT
1745'FSL-1030'FWL
35°43'50.3" N
97°38'05.0" W
35.730645917' N
97.634715583' W
X 2108422
Y 266166

T15N-R4W
Township Line

X 2110056
Y 264423

LOGAN, CO.
County Line

X 2112708
Y 264425

T14N-R4W

WATERLOO ROAD

OKLAHOMA, CO.

X 2107403
Y 264419

LOT 4

LOT 3

LOT 2

LOT 1

S/2-NW/4

S/2-NE/4

X 2112708
Y 261704

X 2107399
Y 261638

PROPOSED DRILL PATH

ROCKWELL AVE.

N. MACARTHUR AVE.

X 2107401
Y 258997

X 2110052
Y 259030

X 2112705
Y 259060

SORGHUM MILL ROAD

BOTTOM HOLE
500'FNL-1300'FWL
35°42'34.6" N
97°38'01.9" W
35.709620162' N
97.633867541' W
X 2108702
Y 258513

X 2107409
Y 256356

X 2110056
Y 256377

X 2112710
Y 256417

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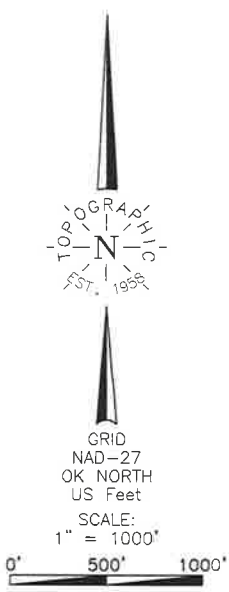
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