

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

API NUMBER: 003 23332

Approval Date: 08/24/2018

Expiration Date: 02/24/2019

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 30 Twp: 25N Rge: 11W

County: ALFALFA

SPOT LOCATION: ☐ SW ☐ SE ☐ SW ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 240 1950

Lease Name: CULLEN

Well No: 2-30H

Well will be 240 feet from nearest unit or lease boundary.

Operator
Name: AEXCO PETROLEUM INC

Telephone: 3038319226

OTC/OCC Number: 17342 0

AEXCO PETROLEUM INC
1675 BROADWAY STE 1900
DENVER, CO 80202-4631

VENCIL AND LORETA GREEN
218 SOUTH CENTRAL
CARMEN OK 73726

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

Name	Depth	Name	Depth
1 MISS'AN LM	6000	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 93336

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201804541
201805050

Special Orders:

Total Depth: 11400

Ground Elevation: 1307

Surface Casing: 1200

Depth to base of Treatable Water-Bearing FM: 290

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: 80000 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: CEDAR HILLS

E. Haul to Commercial pit facility: Sec. 10 Twn. 26N Rng. 15W Cnty. 151 Order No: 563714

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 30 Twp 25N Rge 11W County ALFALFA

Spot Location of End Point: N2 N2 N2 N2

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 2640

Depth of Deviation: 5200

Radius of Turn: 840

Direction: 355

Total Length: 4880

Measured Total Depth: 11400

True Vertical Depth: 6100

End Point Location from Lease,

Unit, or Property Line: 165

Notes:

Category

Description

DEEP SURFACE CASING

8/15/2018 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

8/15/2018 - 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

PENDING CD - 201804541

8/22/2018 - G58 - (I.O.) 30-25N-11W
X93336 MPLM
COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 1320' FEL
NO OP. NAMED
REC 7/2/2018 (MINMIER)

PENDING CD - 201805050

8/22/2018 - G58 - 30-25N-11W
X93336 MPLM
1 WELL
NO OP. NAMED
REC 7/23/2018 (DENTON)

SPACING - 93336

8/22/2018 - G58 - (640) 30-25N-11W
EXT 51771/88782 MPLM, OTHER

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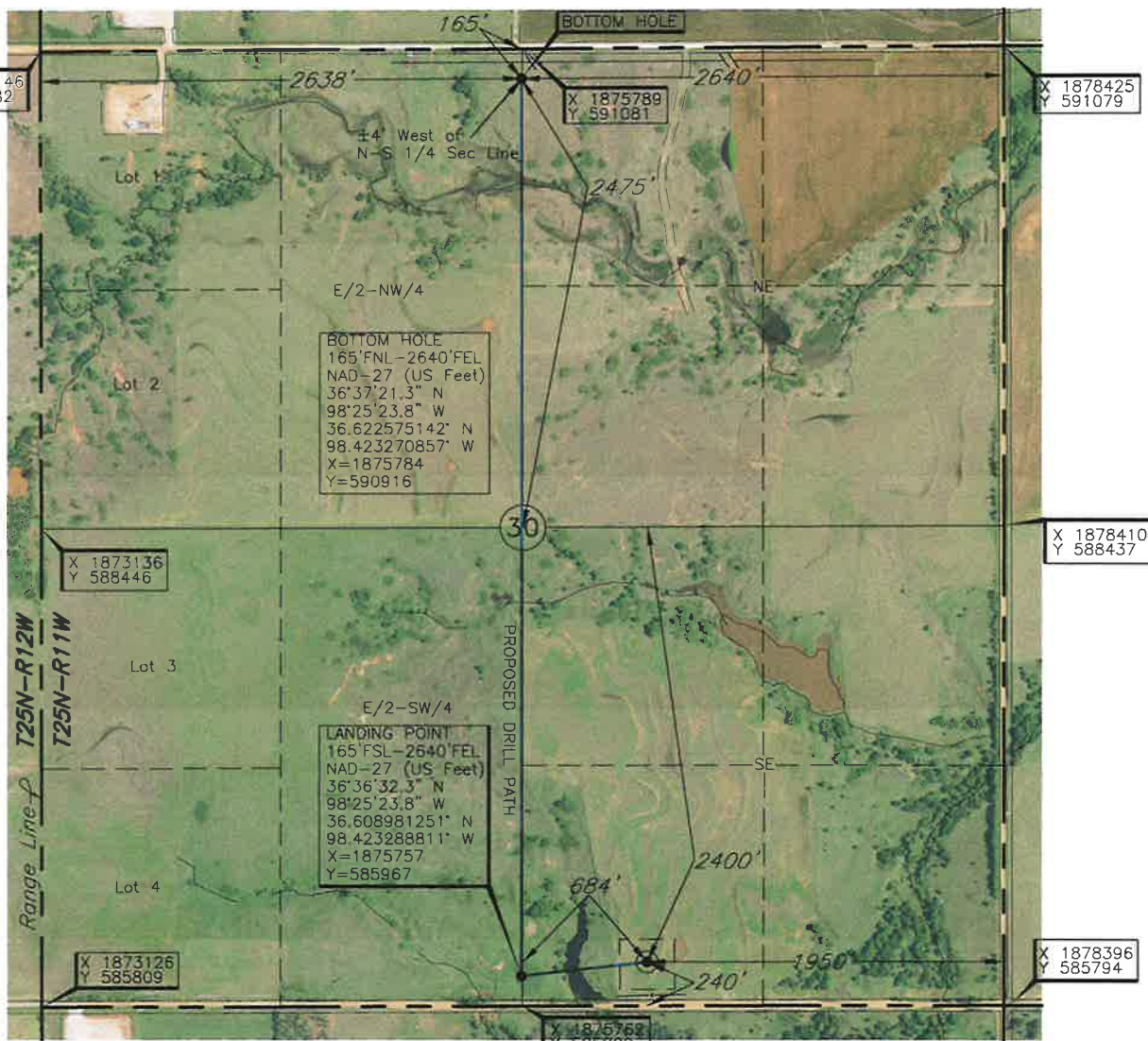
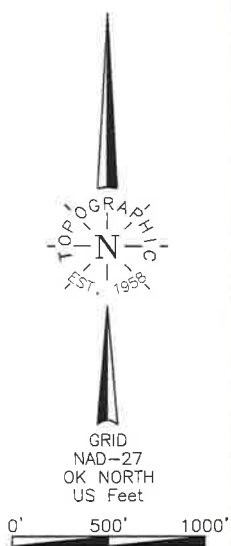
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003 23332 CULLEN 2-30H

003-23332

240' FSL - 1950' FEL Section 30 Township 25N Range 11W L.M.

NOTE:
The information shown herein is for
construction purposes ONLY.



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

Operator: AEXCO PETROLEUM, INC.

Lease Name: CULLEN

Well No.: 2-30 H

ELEVATION:

1307' Gr. at Stake

Topography & Vegetation Loc. fell in terraced pasture, ±182' North of E-W SWD pipeline

Good Drill Site? Yes Reference Stakes or Alternate Location
Stakes Set None

Best Accessibility to Location From South off county road

Distance & Direction
from Hwy Jct or Town From Jct. St. Hwy. 8 N-S and St. Hwy. 45 W, East of Carmen, OK, go ±1.5 mi. N-NE
on St. Hwy. 8, then ±0.7 mi. North on county road to the SE Cor. of Sec. 30-T25N-R11W

Revision ☒ A Date of Drawing: Aug. 23, 2018

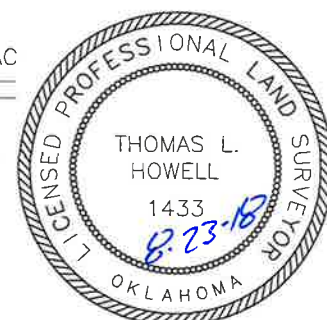
Invoice # 298928 Date Staked: Jul. 19, 2018

AC

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



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

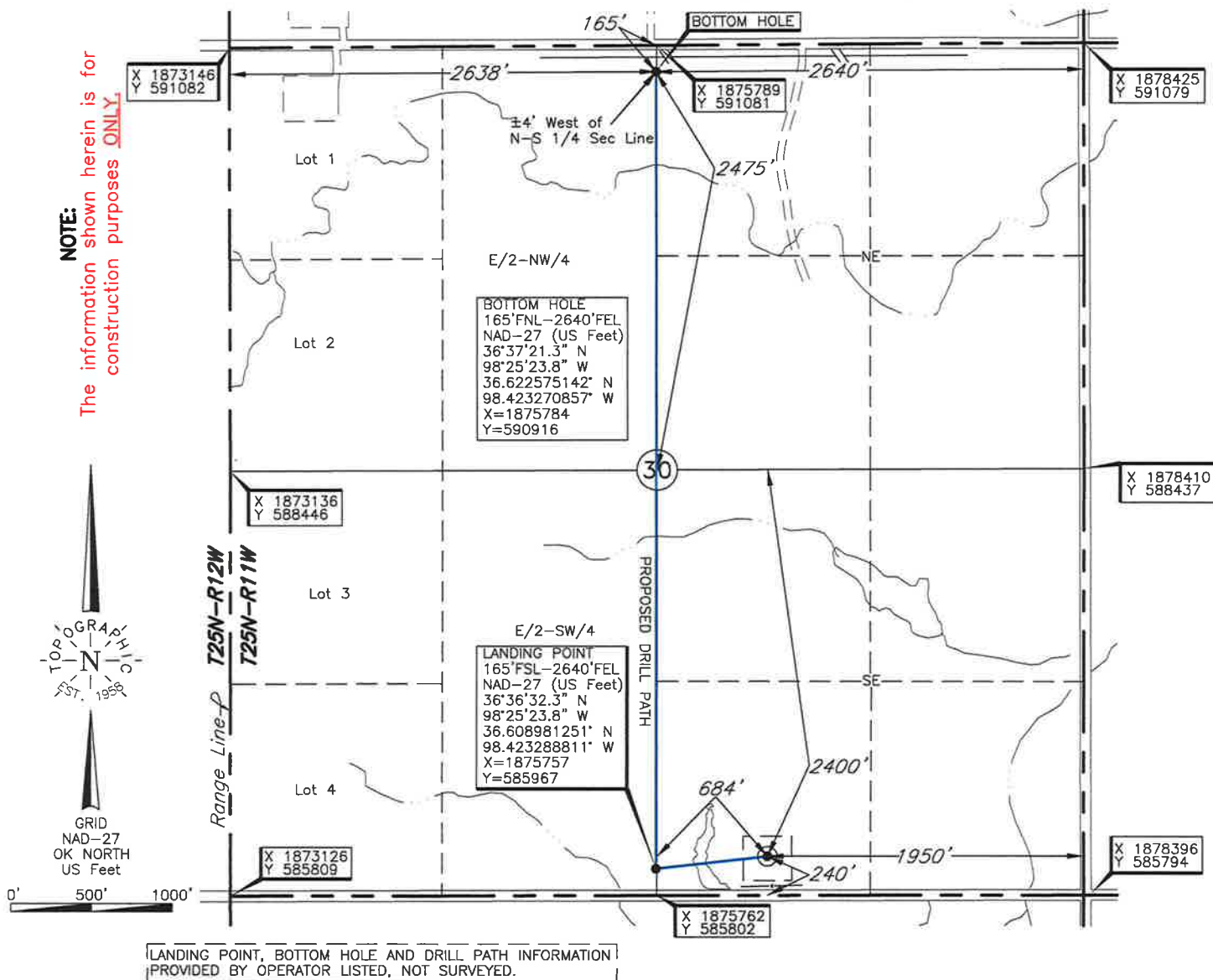
DATUM: NAD-27
LAT: 36°36'33.1"N
LONG: 98°25'15.4"W
LAT: 36.609190100° N
LONG: 98.420937499° W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1876447
Y: 586040

ALFALFA

County, Oklahoma

240'FSL - 1950'FEL Section 30 Township 25N Range 11W I.M.

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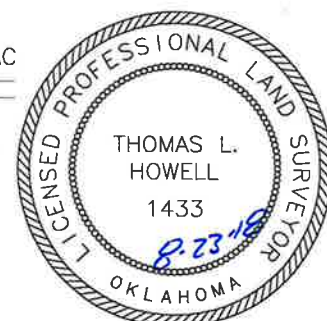
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AC

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



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