API NUMBER: 045 23677

Horizontal Hole Oil & Gas

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

Approval Date: 07/14/2017
Expiration Date: 01/14/2018

PERMIT TO DRILL

WELL LOCATION: Sec: 27 Twp: 20N Rge: 24W County: ELLIS

SPOT LOCATION: SW SE SE SW

FEET FROM QUARTER: FROM **SOUTH** FROM **WEST**

SECTION LINES: **295** **2206**

Lease Name: ROPER 27 **Well No: 2H** **Well will be 295 feet from nearest unit or lease boundary.**

Operator Name: JONES ENERGY LLC Telephone: 5123282953 OTC/OCC Number: 21043 0

JONES ENERGY LLC
807 LAS CIMAS PKWY STE 350
AUSTIN, TX 78746-6193

WAYLAND FAMILY & JOYCE WAYLAND TRUST
PO BOX 262
ARNETT OK 73832

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

	Name	Depth		Name	Depth
1	CLEVELAND	8500	6		
2			7		
3			8		
4			9		
5			10		

Spacing Orders: 101239

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201702153

Special Orders:

Total Depth: 13046 Ground Elevation: 2407 **Surface Casing: 760** Depth to base of Treatable Water-Bearing FM: 710

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: No

PIT 1 INFORMATION

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** located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: OGALLALA

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 17-32823

H. SEE MEMO

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.

PIT 2 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: OIL BASED

Chlorides Max: 300000 Average: 200000

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: OGALLALA

HORIZONTAL HOLE 1

Sec 27 Twp 20N Rge 24W County ELLIS

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: 7850

Radius of Turn: 650

Direction: 3

Total Length: 4175

Measured Total Depth: 13046

True Vertical Depth: 8500

End Point Location from Lease,
Unit, or Property Line: 165

Notes:

Category	Description
HYDRAULIC FRACTURING	7/11/2017 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK HTTP://FRACFOCUS.ORG/ WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE
MEMO	7/11/2017 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 201702153	7/14/2017 - G60 - (I.O.) 27-20N-24W X101239 CLVD COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 2640' FEL NO OP. NAMED REC. 6/27/17 (LORENZ)
SPACING - 101239	7/14/2017 - G60 - (640) 27-20N-24W X64184/65115 CLVD, OTHERS

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.

3504523677

PROPOSED NEW WELL LOCATION PLAT

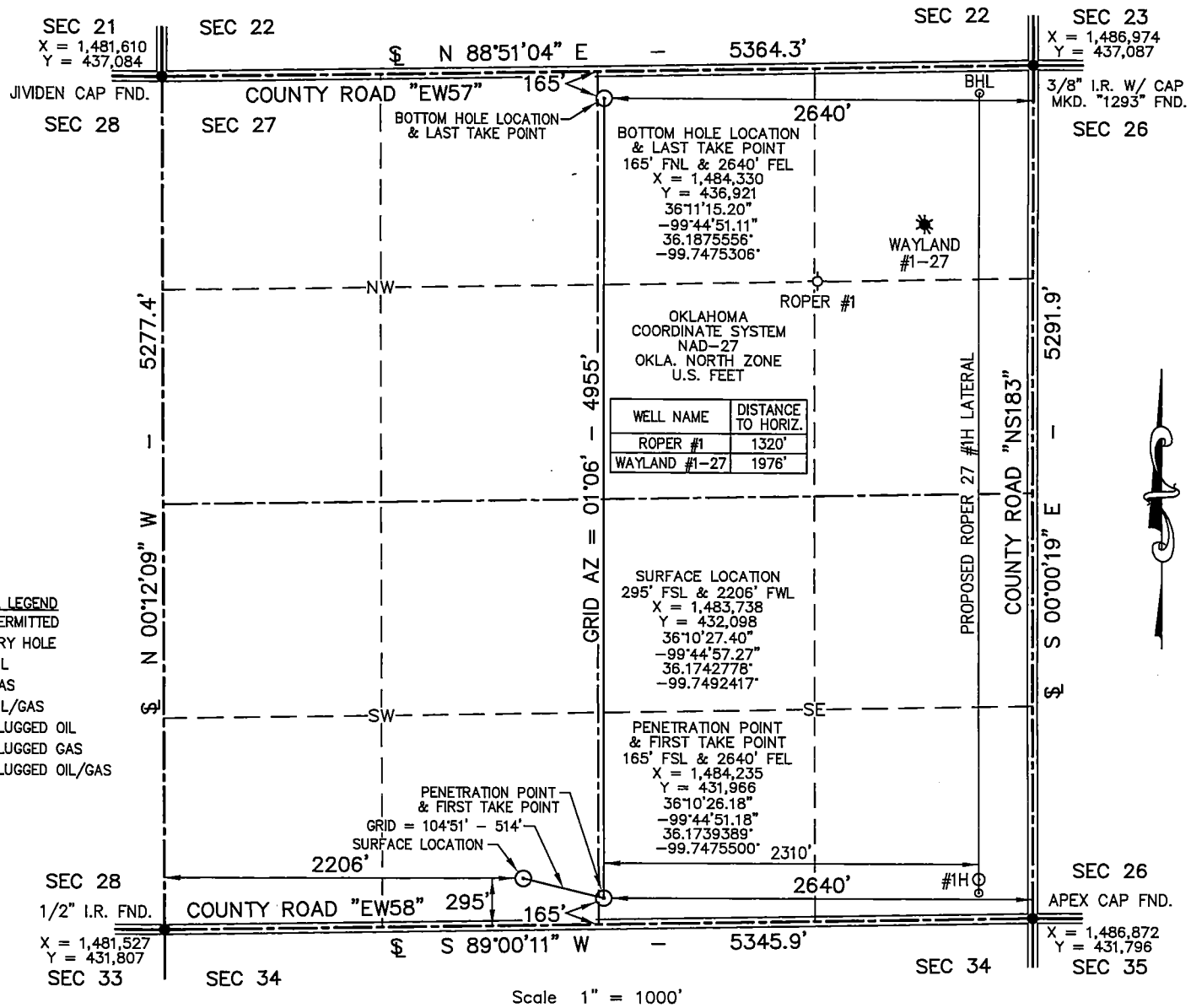
COMPANY JONES ENERGY, LLC LEASE ROPER 27 WELL NO. 2H

SECTION 27 TOWNSHIP 20-N RANGE 24-WIM LOCATION 295' FSL 2206' FWL

COUNTY ELLIS STATE OKLAHOMA TOPOGRAPHY AND VEGETATION WHEAT FIELD

LATITUDE 36°10'27.40" LONGITUDE -99°44'57.27" NAD27 ELEVATION 2407' NGVD29 DATE STAKED 3/23/17

DIRECTION FROM NEAREST TOWN APPROXIMATELY 3.0 MILES NORTHEAST OF ARNETT, OKLAHOMA



WELL NAME	DISTANCE TO HORIZ.
ROPER #1	1320'
WAYLAND #1-27	1976'

Scale 1" = 1000'

-1000 -500 0 1000

NOTE:

1. This plat is intended for Oklahoma Corporation Commission Permit purposes only and is NOT to be relied upon as a boundary survey and is NOT to be used to convey or establish real property interests.
2. Bearings and dimensions shown are based on Geodetic Azimuth and Ground distance. All X,Y coordinates are based on NAD27, Oklahoma North Zone, U.S. Feet.
3. X,Y Coordinates were derived from GPS RTK methods and are only accurate within +/- 10 feet.

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY MYSELF OR OTHERS UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

SIGNED: DATED: 3/29/17

REGISTERED PROFESSIONAL LAND SURVEYOR
CURT McPHERSON
1513
OKLAHOMA

APEX
SURVEYING & MAPPING, INC.
TEXAS * OKLAHOMA * KANSAS
105 HACKBERRY TRAIL
CANADIAN, TEXAS 79014
806-323-9773

APEX Surveying & Mapping

Certificate of Authorization No. 3415, Exp. June 30, 2018

JONES ENERGY
807 LAS CIMAS PARKWAY • SUITE 350 • AUSTIN, TEXAS 78746

FIELD:	JT,CMc,GPS
DRAWN:	CM
DATE:	3/29/17
CHECKED:	MLS
REVISION:	
SHEET:	1 OF 4

JOB NO. C217-070-1