

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

API NUMBER: 073 26645

Approval Date: 12/10/2019

Expiration Date: 06/10/2021

Horizontal Hole
Multi Unit
Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 29 Twp: 18N Rge: 6W

County: KINGFISHER

SPOT LOCATION: ☐ SW ☐ SE ☐ SE ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 238 344

Lease Name: EUGENE 29-18-06

Well No: 4HC

Well will be 238 feet from nearest unit or lease boundary.

Operator Name: CHESAPEAKE OPERATING LLC

Telephone: 4059357539; 4059358

OTC/OCC Number: 17441 0

CHESAPEAKE OPERATING LLC
PO BOX 18496
OKLAHOMA CITY, OK 73154-0496

BERNADINE JUNE THIEMES TRUST
P.O. BOX 115
KINGFISHER OK 73750

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

Name	Depth	Name	Depth
1 OSWEGO	6476	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 703232
702512
647840
703628

Location Exception Orders: 702900
702117
703629

Increased Density Orders: 702116

Pending CD Numbers:

Special Orders:

Total Depth: 20700

Ground Elevation: 1109

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 130

Deep surface casing has been approved

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: 3000

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: 19-37121

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 18 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 17 Twp 18N Rge 6W County KINGFISHER

Spot Location of End Point: N2 NE SE NE

Feet From: NORTH 1/4 Section Line: 1385

Feet From: EAST 1/4 Section Line: 330

Depth of Deviation: 6489

Radius of Turn: 453

Direction: 360

Total Length: 13500

Measured Total Depth: 20700

True Vertical Depth: 6494

End Point Location from Lease,

Unit, or Property Line: 0

Notes:

Category

Description

DEEP SURFACE CASING

11/26/2019 - 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

11/26/2019 - 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: OCCWEB.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

INCREASED DENSITY - 702116 (201904115)

12/10/2019 - GC2 - 29-18N-6W
X647840 OSWG
1 WELL
CHESAPEAKE OPERATING, LLC
9-12-2019

LOCATION EXCEPTION - 702117
(201904117)

12/10/2019 - GC2 - (I.O.) 29-18N-6W
X647840 OSWG
COMPL. INT. NCT 0' FNL, NCT 330' FSL, NCT 330' FEL
NO OP. NAMED
9-12-2019

LOCATION EXCEPTION - 702900
(201904121)

12/10/2019 - GC2 - (I.O.) 20-18N-6W
X702512 OSWG
COMPL. INT. NCT 0' FNL, NCT 0' FSL, NCT 330' FEL
NO OP. NAMED
9-27-2019

LOCATION EXCEPTION - 703629
(201904123)

12/10/2019 - GC2 - (I.O.) 17-18N-6W
X703232 OSWG
COMPL. INT. NCT 330' FNL, NCT 0' FSL, NCT 330' FSL
NO OP. NAMED
10-14-2019

SPACING - 647840

12/10/2019 - GC2 - (640)(HOR) 29-18N-6W
EST OSWG, OTHER
COMPL. INT. (OSWG) NCT 660' FB
(COEXIST SPACING ORDER 53420 OSWG)

SPACING - 702512

12/10/2019 - GC2 - (640)(HOR) 20-18N-6W
EST OSWG, OTHER
COMPL. INT. (OSWG) NCT 660' FB
(COEXIST SPACING ORDER 62978 OSWG)

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

073 26645 EUGENE 29-18-06 4HC

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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.

SPACING - 703232

12/10/2019 - GC2 - (640)(HOR) 17-18N-6W
EST OSWG, OTHER
COMPL. INT. (OSWG) NCT 660' FB
(COEXIST SPACING ORDER 51547 OSWG)

SPACING - 703628 (201904114)

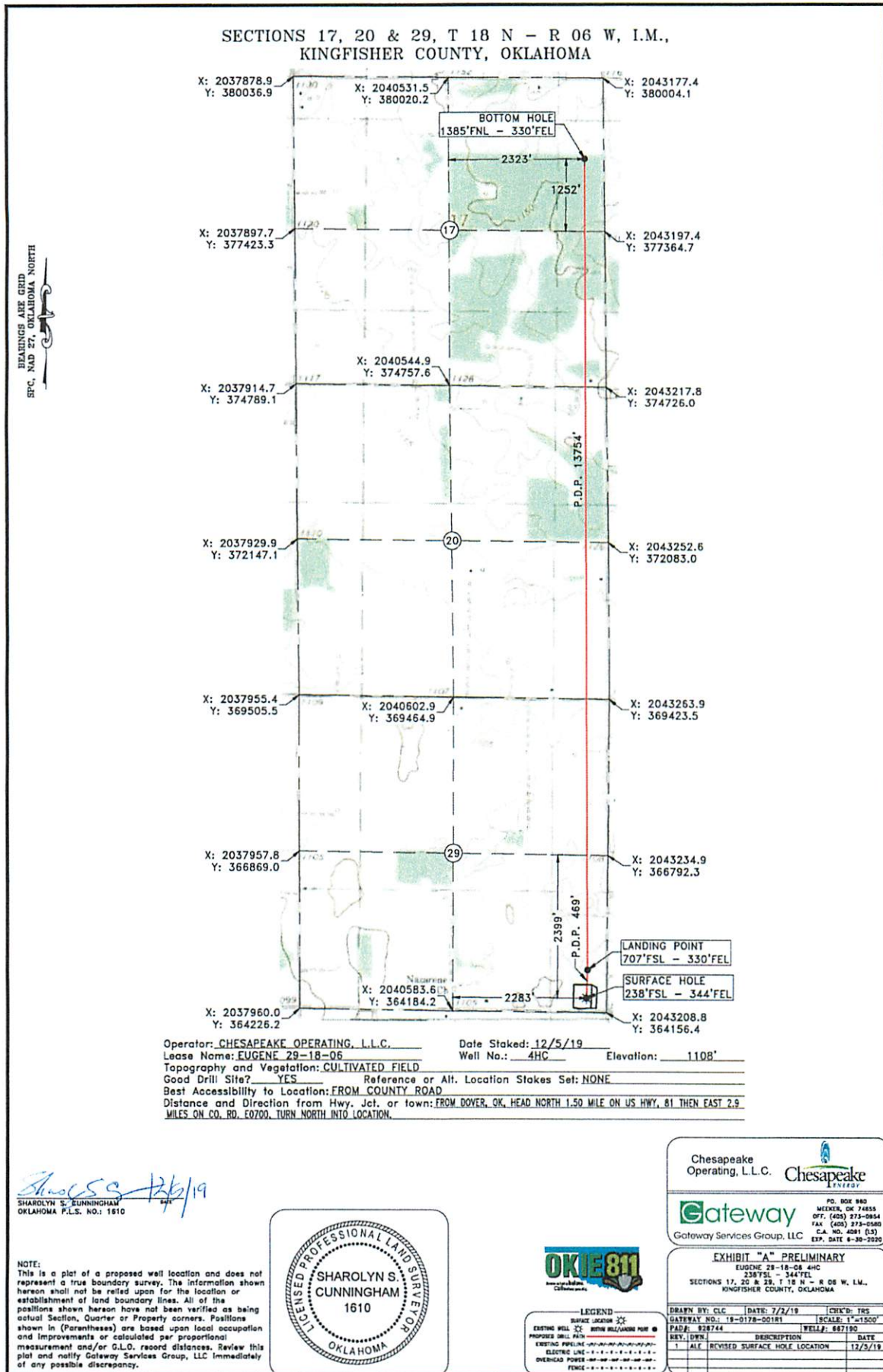
12/10/2019 - GC2 - (I.O.) 29, 20, & 17-18N-6W
EST MULTIUNIT HORIZONTAL WELL
X647840 OSWG 29-18N-6W
X703232 OSWG 17-18N-6W
X702512 OSWG 20-18N-6W
35% 29-18N-6W
37% 20-18N-6W
28% 17-18N-6W
CHESAPEAKE OPERATING, LLC
10-14-2019

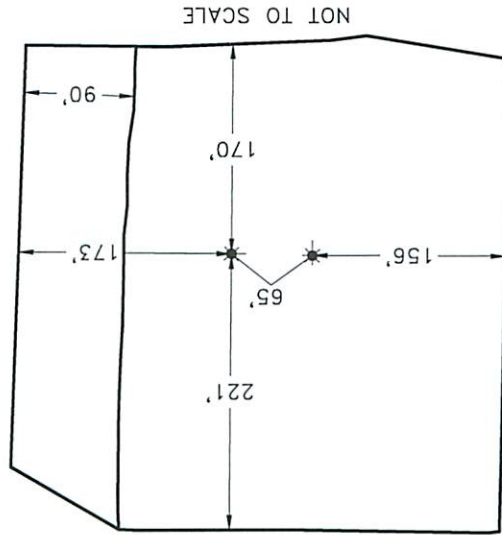
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API: 073-26645





PAD DETAIL:
EUGENE 29-18-6 4HC
SHL: 238'FSL - 344'FEL

NAD27 - LAT AND LONG (DECIMAL)		
POSITION	LATITUDE	LONGITUDE
LANDING POINT	N36.002273	W97.855015
BOTTOM HOLE	N36.040058	W97.855040
SURFACE HOLE	N36.000986	W97.855081

NAD27 - LAT AND LONG (DMS)		
POSITION	LATITUDE	LONGITUDE
LANDING POINT	N36°00'08.18"	W97°51'18.05"
BOTTOM HOLE	N36°02'24.21"	W97°51'18.15"
SURFACE HOLE	N36°00'03.55"	W97°51'18.29"

NAD27 - XY		
POSITION	NORTHING	EASTING
LANDING POINT	364866.9	2042885.8
BOTTOM HOLE	378621.0	2042857.9
SURFACE HOLE	364398.1	2042867.2

NAD83 - LAT AND LONG (DECIMAL)		
POSITION	LATITUDE	LONGITUDE
LANDING POINT	N36.002313	W97.855347
BOTTOM HOLE	N36.040098	W97.855373
SURFACE HOLE	N36.001026	W97.855413

NAD83 - LAT AND LONG (DMS)		
POSITION	LATITUDE	LONGITUDE
LANDING POINT	N36°00'08.33"	W97°51'19.25"
BOTTOM HOLE	N36°02'24.35"	W97°51'19.34"
SURFACE HOLE	N36°00'03.69"	W97°51'19.49"

NAD83 - XY		
POSITION	NORTHING	EASTING
LANDING POINT	364890.9	2011286.6
BOTTOM HOLE	378645.1	2011258.6
SURFACE HOLE	364422.1	2011267.9

Chesapeake Energy
Operating, L.L.C.

Gateway Services Group, LLC
C.R. NO. 4091 (LS)
FAX: (405) 273-0580
OFF: (405) 273-0954
WEEKER, OK 74855
PO BOX 960

EXHIBIT "A" PRELIMINARY
EUGENE 29-18-06 4HC
238'FSL - 344'FEL
SECTIONS 17, 20 & 29, T 18 N - R 06 W, I.M.,
KINGFISHER COUNTY, OKLAHOMA

DRAWN BY: CLC DATE: 7/2/19
GATEWAY NO.: 19-0178-002R1
SCALE: N.T.S.
PAD#: 928744
WELL#: 667190
DESCRIPTION
DATE
12/5/19