

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

API NUMBER: 017 24898 A

Approval Date: 06/10/2016
Expiration Date: 12/10/2016

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 30 Twp: 11N Rge: 7W

County: CANADIAN

SPOT LOCATION: SW SE SE SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 189 627

Lease Name: GATZ

Well No: 1H-3019X

Well will be 189 feet from nearest unit or lease boundary.

Operator Name: CIMAREX ENERGY CO

Telephone: 9185851100

OTC/OCC Number: 21194 0

CIMAREX ENERGY CO
202 S CHEYENNE AVE STE 1000
TULSA, OK 74103-3001

LAWRENCE GATZ
18385 SW 89TH
UNION CITY OK 73090

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	10010	6	
2	WOODFORD	10860	7	
3	HUNTON	11000	8	
4			9	
5			10	

Spacing Orders: 646343

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201601218
201601220
201601219

Special Orders:

Total Depth: 21111

Ground Elevation: 1286

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 370

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: 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 ALLUVIAL

Pit Location Formation: ALLUVIUM

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 16-31209

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 19 Twp 11N Rge 7W County CANADIAN

Spot Location of End Point: N2 NE NE NE

Feet From: NORTH 1/4 Section Line: 150

Feet From: EAST 1/4 Section Line: 330

Depth of Deviation: 10628

Radius of Turn: 478

Direction: 3

Total Length: 9732

Measured Total Depth: 21111

True Vertical Depth: 11106

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

Notes:

Category

Description

DEEP SURFACE CASING

4/14/2016 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

4/14/2016 - 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/](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.

PENDING CD - 201601218

4/14/2016 - G75 - (640)(HOR) 30-11N-7W
EXT 646343 MSSP, WDFD, HNTN
COMPL. INT. (MSSP, HNTN) NLT 660' FB
COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL
(COEXIST SP. ORDER # 134313 HNTN & ORDER # 260940 MSSLM)
REC 6-6-2016 (MCKEOWN)

PENDING CD - 201601219

4/14/2016 - G75 - (I.O.) 19 & 30-11N-7W
EST MULTIUNIT HORIZONTAL WELL
X646343 MSSP, WDFD, HNTN 19-11N-7W
X201601218 MSSP, WDFD, HNTN 30-11N-7W
(MSSP, HNTN ASSOCIATED COMMON SOURCES OF SUPPLY TO WDFD)
50% 19-11N-7W
50% 30-11N-7W
NO OP. NAMED
REC 6-6-2016 (MCKEOWN)

PENDING CD - 201601220

4/14/2016 - G75 - (I.O.) 19 & 30-11N-7W
X646343 MSSP, WDFD, HNTN 19-11N-7W
X201601218 MSSP, WDFD, HNTN 30-11N-7W
SHL (30-11N-7W) NCT 189 FSL, NCT 627 FEL
COMPL. INT. (30-11N-7W) NCT 165 FSL, NCT 0 FNL, NCT 330 FEL
COMPL. INT. (19-11N-7W) NCT 0 FSL, NCT 165 FNL, NCT 330 FEL
NO OP. NAMED
REC 6-6-2016 (MCKEOWN)

SPACING - 646343

4/14/2016 - G75 - (640)(HOR) 19-11N-7W
EXT 631118 MSSP, WDFD
EST HNTN
COMPL. INT. (MSSP, HNTN) NLT 660' FB
COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL
(COEXIST SP. ORDER # 127075/128028 HNTN & ORDER # 541138 MSSP, WDFD)

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.

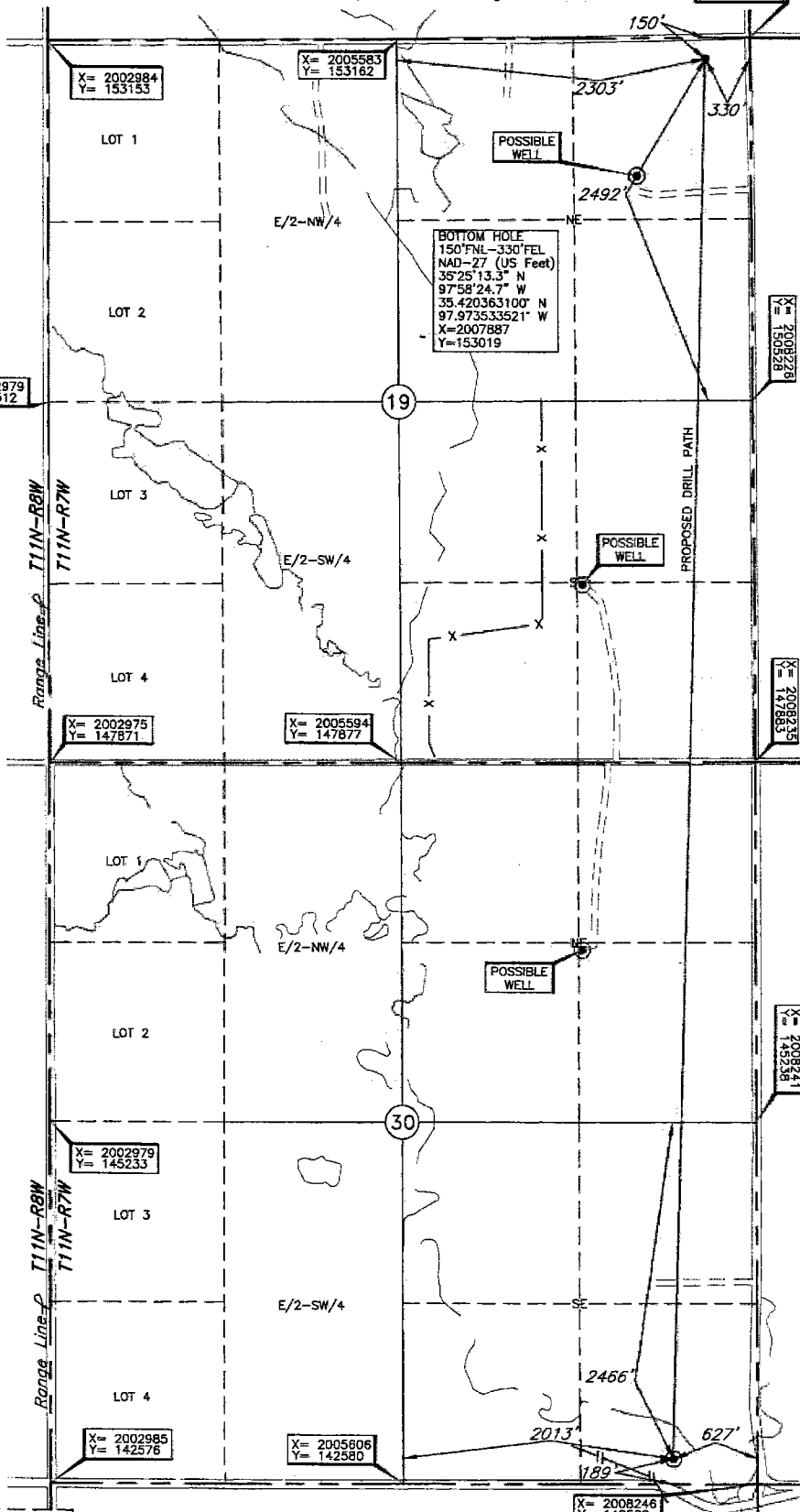
API 017-24898 A

CANADIAN County, Oklahoma
 189° FSL - 627' FEL Section 30 Township 11N Range 7W I.M.

X= 2008216
 Y= 153170



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



Operator: CIMAREX ENERGY CO.
 Lease Name: GATZ
 Topography & Vegetation Loc. fell in old/cra field, ±172' SW to pipeline, ±150' South to E-W fence.
 Good Drill Site? Yes
 Reference Stakes or Alternate Location None
 Stakes Set None
 Well No.: 1H-3019X
 ELEVATION: 1286' Gr. at Stake
 Beat Accessibility to Location From South off county road
 Distance & Direction From Jct. US Hwy. 81 and St. Hwy. 152 at Union City, OK, go ±2.0 mi. West to the SE Cor. of Sec. 30-T11N-R7W

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

DATUM: NAD-27
 LAT: 35°23'32.0"N
 LONG: 97°58'28.0"W
 LAT: 35.392208657° N
 LONG: 97.974443750° W
 STATE PLANE COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 2007618
 Y: 142771

Date of Drawing: Mar. 28, 2016
 Invoice # 258171 Date Staked: Mar. 23, 2016 AC

CERTIFICATE:
 I, T. Wayne Fisch a Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein
 T. Wayne Fisch
 Oklahoma Lic. No. 1378

