

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

API NUMBER: 017 24917

Approval Date: 07/12/2016
Expiration Date: 01/12/2017

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: BAUSTERT

Well No: 1H-2920X

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 & JANET GATZ
18385 SW 89TH
UNION CITY OK 73090

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	10634	6	
2	WOODFORD	10856	7	
3	HUNTON	11405	8	
4			9	
5			10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201601555
201602416
201602417
201601558
201600982
201602858

Special Orders:

Total Depth: 19202

Ground Elevation: 1287

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

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 BED AQUIFER

Pit Location Formation: ALLUVIUM

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

PERMIT NO: 16-31357

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 20 Twp 11N Rge 7W County CANADIAN

Spot Location of End Point: NE NW SW

Feet From: SOUTH 1/4 Section Line: 2475

Feet From: WEST 1/4 Section Line: 380

Depth of Deviation: 10711

Radius of Turn: 750

Direction: 10

Total Length: 7313

Measured Total Depth: 19202

True Vertical Depth: 11405

End Point Location from Lease,
Unit, or Property Line: 380

Notes:

Category	Description
DEEP SURFACE CASING	7/11/2016 - 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	7/11/2016 - 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/ 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 - 201600982	7/11/2016 - G75 - (640)(HOR) 20-11N-7W EST WDFD COMPL. INT. NCT 165' TO NL & SL, NCT 330' TO EL & WL REC. 6-10-16 (MCKEOWN)
PENDING CD - 201601555	7/11/2016 - G75 - (640)(HOR) 20 & 29-11N-7W EST MSSP, WDFD, HNTN POE TO BHL (MSSP, HNTN) NLT 660' FB POE TO BHL (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL (COEXIST SP. ORDER # 127075/128028 HNTN & ORDER # 266809 MISS 20-11N-7W; SP. ORDER # 82467 HNTN & ORDER # 403390 MISS 29-11N-7W) REC 6-27-2016 (JOHNSON)
PENDING CD - 201601558	7/11/2016 - G75 - (I.O.) 20 & 29-11N-7W EST MULTIUNIT HORIZONTAL WELL X201600982 WDFD 20-11N-7W X201601555 MSSP, WDFD, HNTN 20 & 29-11N-7W (MSSP, HNTN ASSOCIATED COMMON SOURCES OF SUPPLY TO WDFD) 33% 20-11N-7W 67% 29-11N-7W NO OP. NAMED REC 7-11-2016 (MCKEOWN)
PENDING CD - 201602416	7/11/2016 - G75 - (I.O.) X201601555 MSSP, WDFD, HNTN SHL (30-11N-7W) NCT 189 FSL, NCT 627 FEL COMPL. INT. (29-11N-7W) NCT 165 FSL, NCT 0 FNL, NCT 330 FWL NO OP. NAMED REC 7-11-2016 (MCKEOWN)
PENDING CD - 201602417	7/11/2016 - G75 - (I.O.) 20-11N-7W X201600982 WDFD X201601555 MSSP, WDFD, HNTN COMPL. INT. NCT 0 FSL, NCT 2640 FSL, NCT 330 FWL BHL NCT 2640 FSL, NCT 330 FWL NO OP. NAMED REC 7-11-2016 (MCKEOWN)

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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.

Category

Description

PENDING CD - 201602858

7/12/2016 - G75 - 20-11N-7W
X201600982 WDFD
X201601555 WDFD, OTHERS
1 WELL
NO OP. NAMED
HEARING 8-1-2016

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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.

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
 Certificate of Authorization No. 1293 LS

CANADIAN

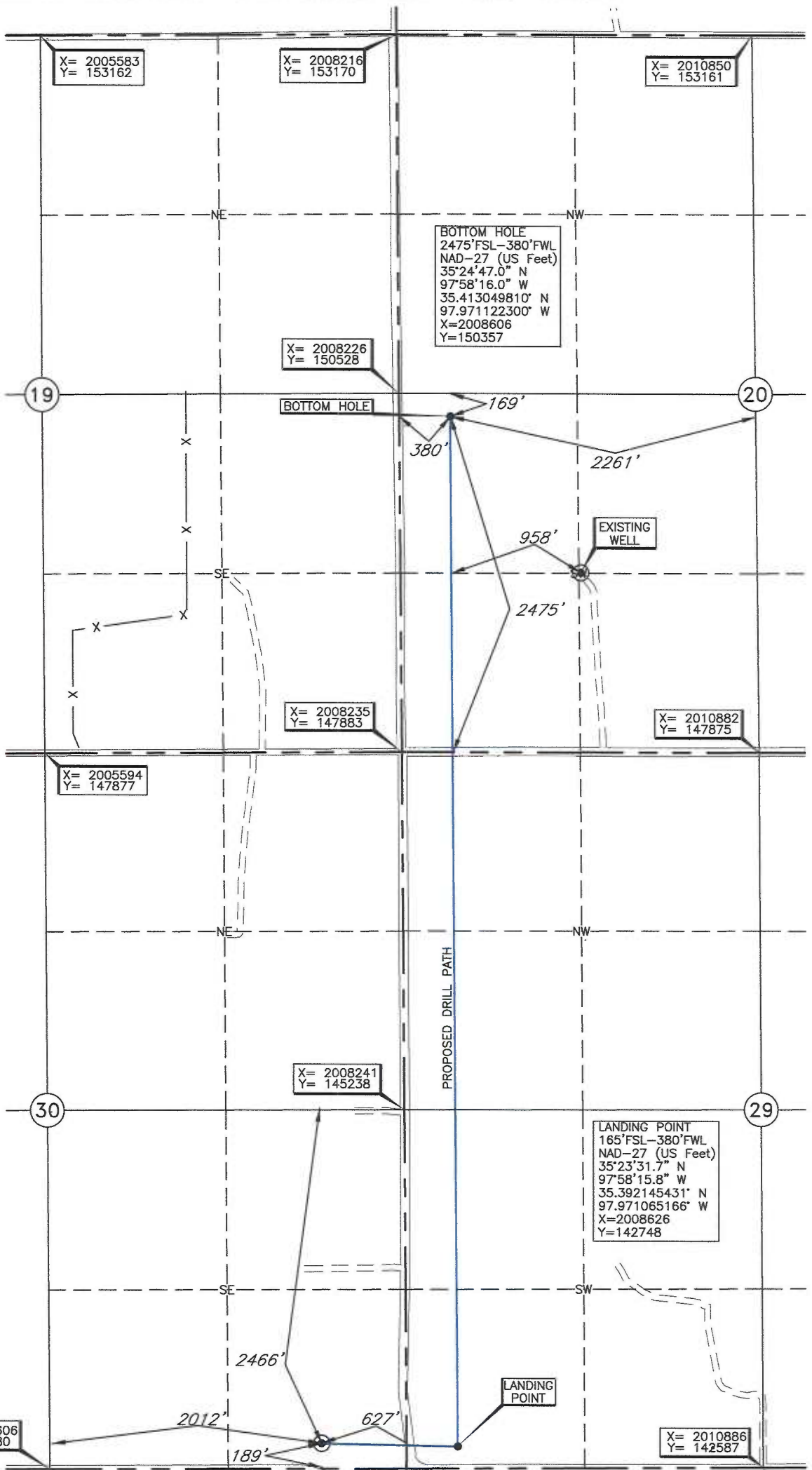
County, Oklahoma

API 017-24917

189'FSL - 627'FEL Section 30 Township 11N Range 7W I.M.



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



Operator: CIMAREX ENERGY CO.
 Lease Name: BAUSTERT
 Topography & Vegetation: Loc. fell on level pad
 Well No.: 1H-2920X
ELEVATION:
1287' Gr. at level pad

Good Drill Site? Yes
 Reference Stakes or Alternate Location: Stakes Set

Best 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.

X= 2008246
 Y= 142582

Revision A Date of Drawing: Jul. 13, 2016
 Invoice # 262272 Date Staked: Jun. 29, 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

DATUM: NAD-27
 LAT: 35°23'32.0"N
 LONG: 97°58'28.0"W
 LAT: 35.392208544° N
 LONG: 97.974443773° W
 STATE PLANE
 COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 2007618
 Y: 142771



This information was gathered with a GPS receiver with a 1 ft. accuracy.