

API NUMBER: 017 25192

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

Approval Date: 02/28/2018

Expiration Date: 08/28/2018

Horizontal Hole

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 36 Twp: 14N Rge: 9W

County: CANADIAN

SPOT LOCATION: ☐ SE ☐ SW ☐ SE ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 280 725

Lease Name: FLOWERS

Well No: 1H-3625X

Well will be 280 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

MARY K. NITZEL  
P.O. BOX 305  
CALUMET OK 73014

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	9427	6	
2	MISSISSIPPI LIME	11100	7	
3			8	
4			9	
5			10	

Spacing Orders: 213936  
633804

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201708373  
201708374

Special Orders:

Total Depth: 20863

Ground Elevation: 1372

**Surface Casing: 430**

Depth to base of Treatable Water-Bearing FM: 380

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? Y

Wellhead Protection Area? Y

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

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

PERMIT NO: 17-33118

H. CLOSED SYSTEM=STEEL PITS (REQUIRED - NORTH CANADIAN RIVER)

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 25 Twp 14N Rge 9W 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: 10717

Radius of Turn: 573

Direction: 5

Total Length: 9574

Measured Total Depth: 20863

True Vertical Depth: 11100

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

## Notes:

### Category

### Description

HYDRAULIC FRACTURING

2/26/2018 - 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](http://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](http://FRACFOCUS.ORG)

PENDING CD - 201708373

2/28/2018 - G57 - (I.O.) 36 & 25-14N-9W  
EST MULTIUNIT HORIZONTAL WELL  
X213936 MSSLM 36-14N-9W  
X633804 MSSP 25-14N-9W  
(MSSLM & MSSP COMMON SOURCES OF SUPPLY)  
50% 36-14N-9W  
50% 25-14N-9W  
NO OP. NAMED  
REC 1-16-2018 (DUNN)

PENDING CD - 201708374

2/28/2018 - G57 - (I.O.) 36 & 25-14N-9W  
X213936 MSSP 36-14N-9W  
X633804 MSSLM 25-14N-9W  
COMPL. INT.(36-14N-9W) NCT 150' FSL, NCT 0' FNL, NCT 250' FEL  
COMPL. INT.(25-14N-9W) NCT 0' FSL, NCT 150' FNL, NCT 250' FEL  
NO OP. NAMED  
REC 1-16-2018 (DUNN)

PUBLIC WATER SUPPLY WELLS

2/26/2018 - G71 - CALUMET - 2 PWS/WPA NE/4 36-14N-9W & 2 PWS/WPA SE/4 25-14N-9W

SPACING - 213936

2/28/2018 - G57 - (640) 36-14N-9W  
EXT 192374 MSSLM, OTHERS  
EXT OTHERS

SPACING - 633804

2/28/2018 - G57 - (640) 25-14N-9W  
VAC 136459 CSTR  
EXT OTHERS  
EST MSSP

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017 25192 FLOWERS 1H-3625X

CANADIAN

County, Oklahoma

280° FSL-725° FEL Section 36 Township 14N Range 9W I.M.

X= 1970138  
Y= 242918



The information shown herein is for construction purposes ONLY.

Distances shown in parentheses are calculated based upon the Quarter Section being 2640 feet, those shown in brackets are based on GLO (General Land Office) distances and have NOT been measured on the ground.

Operator: CIMAREX ENERGY CO.  
Lease Name: FLOWERS

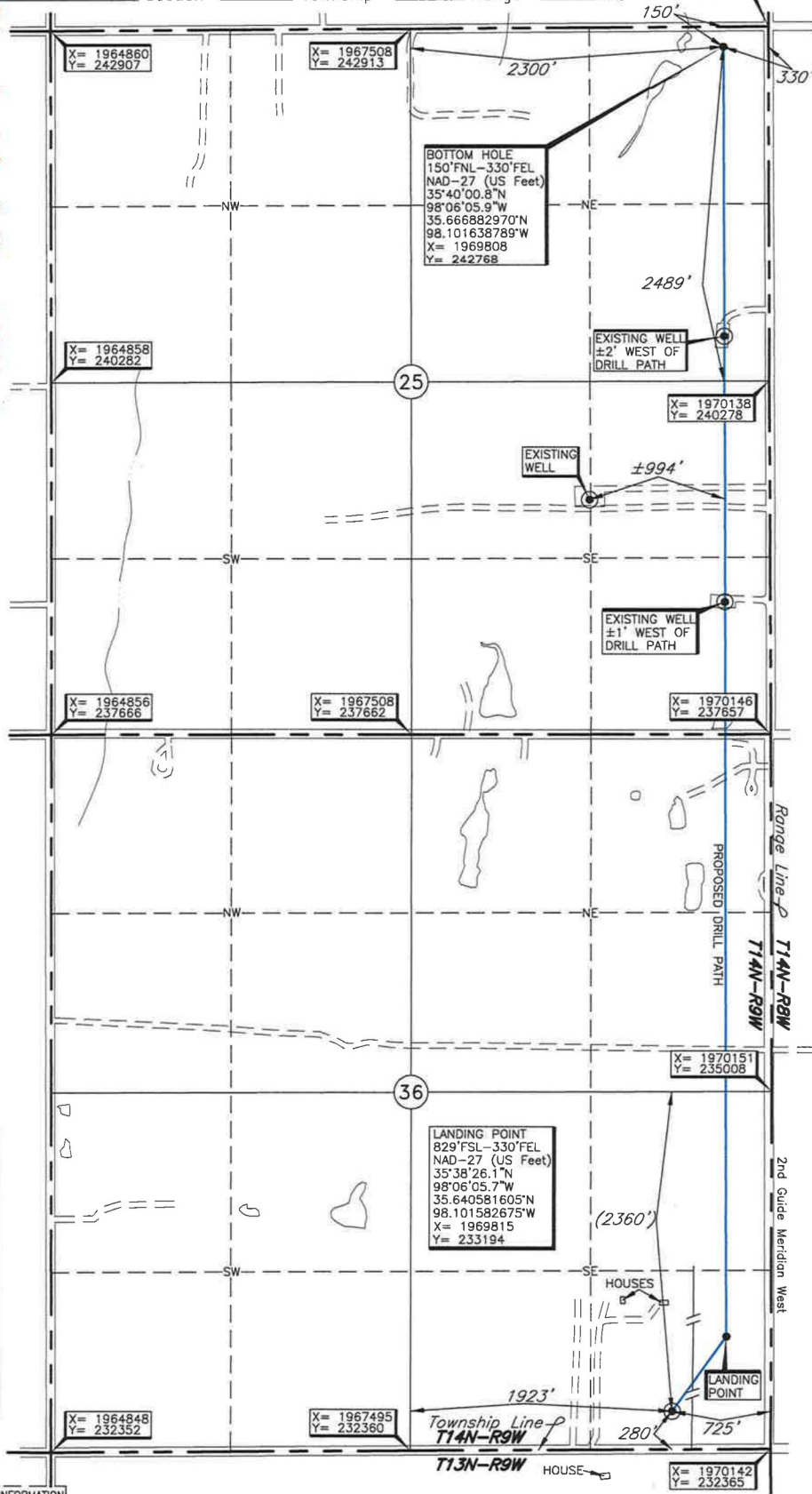
Topography & Vegetation Loc. fell in level field, ±147' West of saltwater line, ±646' NE of house, ±870' SE of house, ±785' South of house.

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

Best Accessibility to Location From South off county road.  
Distance & Direction From Calumet, OK, go North on paved road ±2.5 miles, then East ±1 mile to the SE Cor. 36-114N-R9W.

Well No.: 1H-3625X

ELEVATION: 1372' Gr. at Stake (NGVD29)



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

DATUM: NAD-27  
LAT: 35°38'20.7"N  
LONG: 98°06'10.5"W  
LAT: 35.639069477°N  
LONG: 98.102916814°W  
STATE PLANE COORDINATES: (US Feet)  
ZONE: OK NORTH  
X: 1969418  
Y: 232644

Invoice # 280250 Date of Drawing: Aug. 30, 2017  
Date Staked: Aug. 29, 2017

CERTIFICATE:

I, Lee K. Goss, an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein

Oklahoma Lic. No. 1778

TR

