

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

API NUMBER: 011 24016

Approval Date: 05/29/2018

Expiration Date: 11/29/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 13 Twp: 16N Rge: 12W

County: BLAINE

SPOT LOCATION: ☐ NE ☐ SE ☐ SE ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 600 2445

Lease Name: SEWELL BIA

Well No: 6H-1312X

Well will be 600 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

STEPHEN CORCORAN C/O JERRY WHITE (AGENT)  
120 NORTH 4TH STREET  
CHICKASHA OK 73023

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	9350	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 654339  
677421

Location Exception Orders: 676295

Increased Density Orders: 676141  
676142

Pending CD Numbers:

Special Orders:

Total Depth: 20998

Ground Elevation: 1526

**Surface Casing: 490**

Depth to base of Treatable Water-Bearing FM: 250

Under Federal Jurisdiction: Yes

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: 10000 Average: 5000

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

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

PERMIT NO: 18-34219

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 12 Twp 16N Rge 12W County BLAINE

Spot Location of End Point: NW NE NE NE

Feet From: NORTH 1/4 Section Line: 150

Feet From: EAST 1/4 Section Line: 450

Depth of Deviation: 9136

Radius of Turn: 1350

Direction: 15

Total Length: 9741

Measured Total Depth: 20998

True Vertical Depth: 10624

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

## Notes:

### Category

### Description

HYDRAULIC FRACTURING

5/9/2018 - 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)

INCREASED DENSITY - 676141

5/29/2018 - G75 - 12-16N-12W  
X654339 MSSP  
4 WELLS  
CIMAREX ENERGY CO.  
4-11-2018

INCREASED DENSITY - 676142

5/29/2018 - G75 - 13-16N-12W  
X654339 MSSP  
4 WELLS  
CIMAREX ENERGY CO.  
4-11-2018

INTERMEDIATE CASING

5/9/2018 - G71 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE MORROW SERIES

LOCATION EXCEPTION - 676295

5/29/2018 - G75 - (I.O.) 13 & 12-16N-12W  
X654339 MSSP, OTHER  
COMPL. INT. (13-16N-12W) NCT 150' FSL, NCT 0' FNL, NCT 350' FEL  
COMPL. INT. (12-16N-12W) NCT 0' FSL, NCT 150' FNL, NCT 350' FEL  
CIMAREX ENERGY CO.  
4-13-2018

PUBLIC WATER SUPPLY WELLS

5/9/2018 - G71 - WATONGA, 7 PWS/WPA, SE4 13-16N-12W & NE4 24-16N-12W

SPACING - 654339

5/29/2018 - G75 - (640)(HOR) 12 & 13-16N-12W  
EXT 645048 MSSP, OTHERS  
COMPL. INT. NLT 660' FB  
(COEXIST SP. ORDER # 221573/434805 CSTR S2 & ORDER # 518906 CSTR N2 12-16N-12W;  
ORDER # 221573 CSTR 13-16N-12W)

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

011 24016 SEWELL BIA 6H-1312X

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
SPACING - 677421	5/29/2018 - G75 - (I.O.) 13 & 12-16N-12W EST MULTIUNIT HORIZONTAL WELL X654339 MSSP, OTHER 50% 13-16N-12W 50% 12-16N-12W CIMAREX ENERGY CO. 5-8-2018

