

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

API NUMBER: 017 25111

Approval Date: 11/15/2017

Expiration Date: 05/15/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 31 Twp: 11N Rge: 8W

County: CANADIAN

SPOT LOCATION: ☐ NW ☐ NE ☐ NW ☐ NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 270 647

Lease Name: SHELLY

Well No: 3H-3106X

Well will be 270 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

AAA LAND INVESTMENTS, LLC  
15141 COUNTY STREET 2720  
MINCO OK 73059

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

	Name	Depth	Name	Depth
1	MISSISSIPPI LIME	12006	6	
2	MISSISSIPPIAN	12268	7	
3	WOODFORD	12583	8	
4			9	
5			10	

Spacing Orders: 663653  
560154  
138217

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201706447  
201706446  
201706449  
201706430  
201706431

Special Orders:

Total Depth: 22801

Ground Elevation: 1446

**Surface Casing: 1500**

Depth to base of Treatable Water-Bearing FM: 360

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: MARLOW

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

PERMIT NO: 17-33196

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 06 Twp 10N Rge 8W County GRADY

Spot Location of End Point: SW SE SW SW

Feet From: SOUTH 1/4 Section Line: 150

Feet From: WEST 1/4 Section Line: 807

Depth of Deviation: 12207

Radius of Turn: 521

Direction: 180

Total Length: 9739

Measured Total Depth: 22801

True Vertical Depth: 12728

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

Notes:

Category

Description

HYDRAULIC FRACTURING

11/3/2017 - 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)

MEMO

11/3/2017 - 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

PENDING CD - 201706431

11/14/2017 - G60 - (I.O.) 31-11N-8W & 6-10N-8W  
X663653 (31-11N-8W) MSSP, WDFD  
X138217 (6-10N-8W) MSSLM  
X560154 (6-10N-8W) WDFD  
COMPL. INT. (31-11N-8W) NCT 150' FNL, NCT 0' FSL, NCT 600' FWL  
COMPL. INT. (6-10N-8W) NCT 0' FNL, NCT 150' FSL, NCT 600' FWL  
CIMAREX ENERGY, CO.  
REC. 10/31/17 (JOHNSON)

PENDING CD - 201706446

11/14/2017 - G60 - 6-11N-8W  
X663653 WDFD  
8 WELLS  
NO OP. NAMED  
REC. 10/31/17 (JOHNSON)

PENDING CD - 201706447

11/14/2017 - G60 - 31-11N-8W  
X663653 WDFD  
8 WELLS  
NO OP. NAMED  
REC. 10/31/17 (JOHNSON)

PENDING CD - 201706449

11/14/2017 - G60 - (E.O.) 31-11N-8W & 6-10N-8W  
X165:10-3-28(C)(2)(B) WDFD  
MAY BE CLOSER THAN 600' TO ANY OF THE SHELLEY 1H-3106X, SHELLEY 2H-3106X, SHELLEY 3H-3106X, SHELLEY 4H-3106X, SHELLEY 5H-3106X, SHELLEY 6H-3106X, SHELLEY 7H-3106X, SHELLEY 8H-3106X, SHELLEY 9H-3106X WELLS  
NO OP. NAMED REC.  
10/2/17 (JOHNSON)

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

017 25111 SHELLEY 3H-3106X

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.

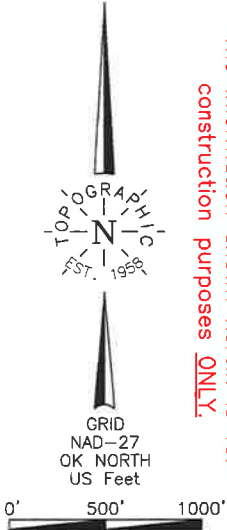
Category	Description
PENDING CD - 20176430	11/14/2017 - G60 - (E.O.) 31-11N-8W & 6-10N-8W EST MULTIUNIT HORIZONTAL WELL X663653 (31-11N-8W) MSSP, WDFD X138217 (6-10N-8W) MSSLM X560154 (6-10N-8W) WDFD (MSSP AND MSSLM ARE ASSOCIATED COMMON SOURCES OF SUPPLY TO WDFD) 50% 31-11N-8W 50% 6-10N-8W CIMAREX ENERGY, CO. REC. 10/31/17 (JOHNSON)
SPACING - 138217	11/14/2017 - G60 - (640) 6-10N-8W EXT OTHERS EXT 98732 MSSLM, OTHERS
SPACING - 560154	11/14/2017 - G60 - (640) 6-10N-8W EXT 144223 WDFD, OTHER EXT OTHER EST OTHER
SPACING - 663653	11/14/2017 - G60 - (640) 31-11N-8W EST OTHERS EXT OTHERS EXT 138433 WDFD (VAC BY 663653), OTHER

CANADIAN/GRADY

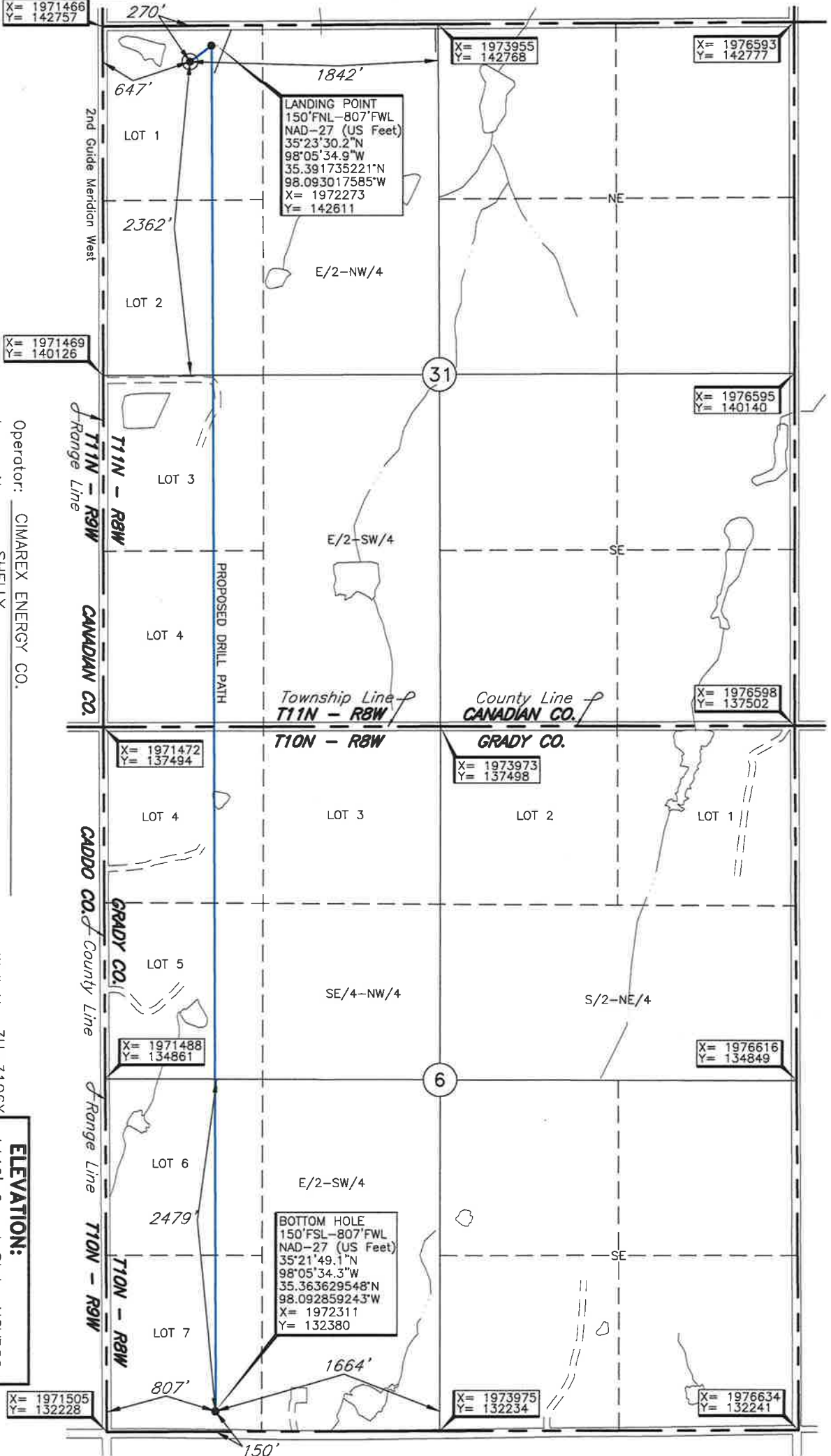
County, Oklahoma

3505125111

270'FNL-647'FWL Section 31 Township 11N Range 8W I.M.



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



Operator: CIMAREX ENERGY CO.  
Lease Name: SHELLY  
Topography & Vegetation: Loc. fell in terraced plowed ground in fence, ±200' NW of pipeline, ±190' SE of pond  
Good Drill Site? Yes  
Reference Stakes or Alternate Location: Stakes Set None  
Best Accessibility to Location: From North off county road.  
Distance & Direction: From the Caddo/Canadian County Line and St. Hwy. 37, go N ±0.5 mile, then East ±1 mile, then South ±0.5 mile, then East ±1.0 mile, then North ±1 mile to the NW Cor. of Sec. 31-T11N-R8W.

**ELEVATION:**  
1446' Gr. at Stake NGVD29

X= 1971505  
Y= 132228

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

Date of Drawing: Sept. 28, 2017

Invoice # 282191 Date Staked: Sept. 12, 2017

TR

**CERTIFICATE:**

I, Thomas L. Howell an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein

Thomas L. Howell  
Oklahoma Lic. No. 1433



DATUM: NAD-27  
LAT: 35°23'29.1"N  
LONG: 98°05'36.8"W  
LAT: 35.391403233°N  
LONG: 98.093551592°W  
STATE PLANE  
COORDINATES: (US Feet)  
ZONE: OK NORTH  
X: 1972114  
Y: 142490

was gathered with a GPS receiver with 1 ft accuracy.