

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

API NUMBER: 011 23684

Approval Date: 11/14/2016  
Expiration Date: 05/14/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 01 Twp: 15N Rge: 13W County: BLAINE  
SPOT LOCATION:  SW  SE  SW  SE FEET FROM QUARTER: FROM SOUTH FROM EAST  
SECTION LINES: 260 1930

Lease Name: WATTS Well No: 1H-0136X Well will be 260 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

SCOTT WILLIAMS  
83504 NORTH 2500 ROAD  
FAY OK 73646

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	10330	6	
2	WOODFORD	12020	7	
3			8	
4			9	
5			10	

Spacing Orders: 653874  
655173

Location Exception Orders: 655174

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 22121

Ground Elevation: 1698

**Surface Casing: 1500**

Depth to base of Treatable Water-Bearing FM: 320

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: 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? 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: RUSH SPRINGS

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

PERMIT NO: 16-31770

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 36 Twp 16N Rge 13W County BLAINE

Spot Location of End Point: N2 N2 N2 N2

Feet From: NORTH 1/4 Section Line: 150

Feet From: EAST 1/4 Section Line: 2640

Depth of Deviation: 11345

Radius of Turn: 750

Direction: 5

Total Length: 9598

Measured Total Depth: 22121

True Vertical Depth: 12105

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

Notes:

Category

Description

DEEP SURFACE CASING

11/9/2016 - 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

11/9/2016 - 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.

INTERMEDIATE CASING

11/9/2016 - 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 - 655174

11/9/2016 - G75 - (I.O.) 1-15N-13W & 36-16N-13W  
X653874 MSSP, WDFD  
SHL (1-15N-13W) NCT 200' FSL, NCT 2440' FWL  
COMPL. INT. (1-15N-13W) NCT 150' FSL, NCT 0' FNL, NCT 2300' FWL  
COMPL. INT. (36-16N-13W) NCT 0' FSL, NCT 150' FNL, NCT 2300' FWL  
CIMAREX ENERGY CO.  
8-12-2016

SPACING - 653874

11/9/2016 - G75 - (640)(HOR) 1-15N-13W & 36-16N-13W  
EST OTHERS  
EXT 648597 MSSP, WDFD, OTHERS  
COMPL. INT. (MSSP) NLT 660' FB  
COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL  
(COEXIST SP. ORDER # 590565 CSTR, MISS, KDRK, WDFD 1-15N-13W & ORDER # 640130 MSSP, WDFD 36-16N-13W)

SPACING - 655173

11/9/2016 - G75 - (I.O.) 1-15N-13W & 36-16N-13W  
EST MULTIUNIT HORIZONTAL WELL  
X653874 MSSP, WDFD  
(WDFD ASSOCIATED COMMON SOURCE OF SUPPLY TO MSSP)  
50% 1-15N-13W  
50% 36-16N-13W  
CIMAREX ENERGY CO.  
8-12-2016

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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

BLAINE

County, Oklahoma

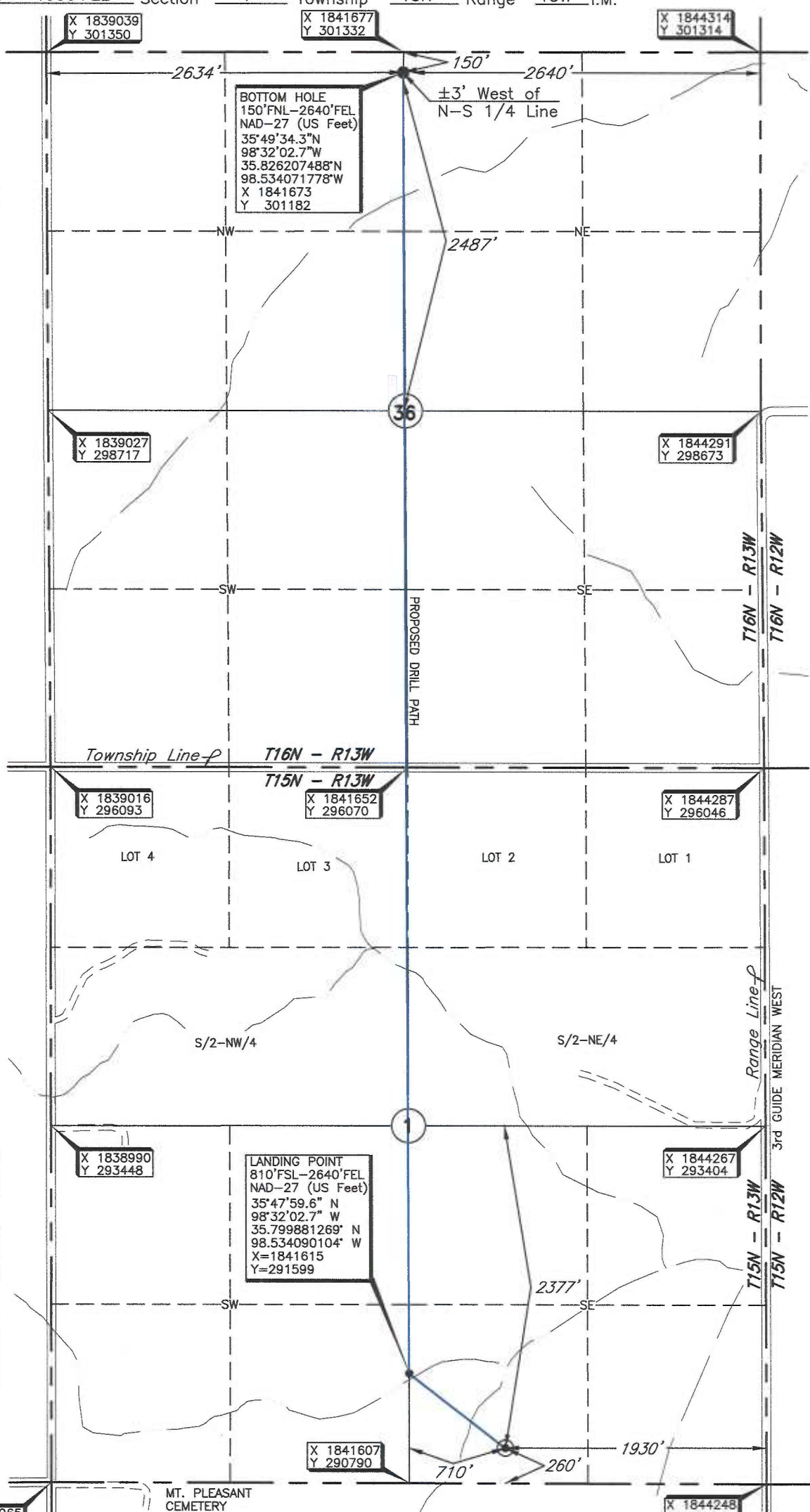
API 011-23684

260'FSL - 1930'FEL Section 1 Township 15N Range 13W I.M.



Landing Point, Bottom Hole and Drill Path information provided by operator listed, NOT Surveyed.

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



**BOTTOM HOLE**  
 150'FNL-2640'FEL  
 NAD-27 (US Feet)  
 35°49'34.3"N  
 98°32'02.7"W  
 35.826207488"N  
 98.534071778"W  
 X 1841673  
 Y 301182

**LANDING POINT**  
 810'FSL-2640'FEL  
 NAD-27 (US Feet)  
 35°47'59.6" N  
 98°32'02.7" W  
 35.799881269" N  
 98.534090104" W  
 X=1841615  
 Y=291599

Operator: CIMAREX ENERGY CO.  
 Lease Name: WATTS  
 Topography & Vegetation: Location fell in grass knoll in sandrock drain.  
 Good Drill Site? Yes  
 Reference Stakes or Alternate Location: Stakes Set None

Well No.: 1H-0136X  
**ELEVATION:**  
1698' Gr. at Stake

Best Accessibility to Location: From east off county road.  
 Distance & Direction from Hwy Jct or Town: From Watonga, Ok. at the Jct. of State Hwy. 3 and St. Hwy. 8, go ±7 miles West on St. Hwy. 3, then ±2 miles South, the ±1 mile East then ±1 mile South to the SE corner of Section 1, T15N - R13W.

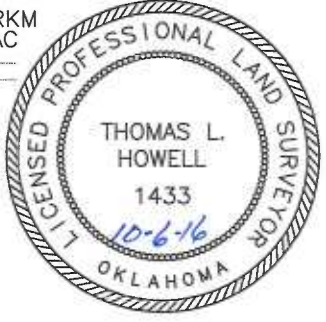
Revision  A Date of Drawing: Oct. 06, 2016  
 Invoice # 261068 Date Staked: May 31, 2016

RKM AC

**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°47'54.1"N  
 LONG: 98°31'54.1"W  
 STATE PLANE COORDINATES: (US Feet)  
 ZONE: OK NORTH  
 X: 1842320  
 Y: 291043