

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

API NUMBER: 073 25874

Approval Date: 01/02/2018

Expiration Date: 07/02/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 36 Twp: 16N Rge: 8W

County: KINGFISHER

SPOT LOCATION:  SW  SW  SE  SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 240 1120

Lease Name: STEVEO BIA

Well No: 8H-3625X

Well will be 240 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

COMM'RS OF LAND OFFICE ST. OF OK.  
SUITE 900  
204 N. ROBINSON  
OKLAHOMA CITY OK 74102

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

Name	Depth	Name	Depth
1 MISSISSIPPI SOLID	9300	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 256313  
264755

Location Exception Orders:

Increased Density Orders: 671532  
671383

Pending CD Numbers: 201705679  
201705670

Special Orders:

Total Depth: 18455

Ground Elevation: 1095

**Surface Casing: 1500**

Depth to base of Treatable Water-Bearing FM: 280

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: 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 not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: CEDAR HILL

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 17-32833

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 25 Twp 16N Rge 8W County KINGFISHER

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: 8069

Radius of Turn: 471

Direction: 10

Total Length: 9647

Measured Total Depth: 18455

True Vertical Depth: 9325

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

Notes:

Category	Description
DEEP SURFACE CASING	12/29/2017 - G58 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING
HYDRAULIC FRACTURING	12/29/2017 - G58 - 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: <a href="http://OCCEWEB.COM/OG/OGFORMS.HTML">OCCEWEB.COM/OG/OGFORMS.HTML</a> ; 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: <a href="http://FRACFOCUS.ORG">FRACFOCUS.ORG</a>
INCREASED DENSITY - 671383	12/29/2017 - G58 - 25-16N-8W X264755 MSSSD 7 WELLS CIMAREX ENERGY CO. 12/21/2017
INCREASED DENSITY - 671532	12/29/2017 - G58 - 36-16N-8W X256313 MSSSD 7 WELLS CIMAREX ENERGY CO. 12/28/2017
INTERMEDIATE CASING	12/29/2017 - G58 - 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
PENDING CD - 201705670	12/29/2017 - G58 - (I.O.) 25 & 36-16N-8W EST MULTIUNIT HORIZONTAL WELL X264755 MSSSD 25-16N-8W X256313 MSSSD 36-16N-8W 50% 25-16N-8W 50% 36-16N-8W NO OP. NAMED REC 9/19/2017 (M. PORTER)
PENDING CD - 201705679	12/29/2017 - G58 - (I.O.) 25 & 36-16N-8W X264755 MSSSD 25-16N-8W X256313 MSSSD 36-16N-8W COMPL. INT. (36-16N-8W) NCT 150 FSL, NCT 0 FNL, NCT 250 FEL COMPL. INT. (25-16N-8W) NCT 0 FSL, NCT 150 FNL, NCT 250 FEL NO OP. NAMED REC 9/19/2017 (M. PORTER)

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.

Category	Description
SPACING – 256313	12/29/2017 - G58 - (640) 36-16N-8W EXT OTHERS EXT 94302/246203 MSSSD, OTHER
SPACING – 264755	12/29/2017 - G58 - (640) 25-16N-8W EXT 256313 MSSSD, OTHERS

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.



# Well Location Plat

S.H.L. Sec. 36-16N-8W I.M.  
B.H.L. Sec. 25-16N-8W I.M.

Operator: CIMAREX ENERGY COMPANY

Lease Name and No.: STEVED BIA 8H-3625X

Footage: 240' FSL - 1120' FEL Gr. Elevation: 1095'

073-25874

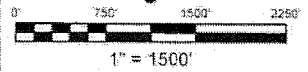
Section: 36 Township: 16N Range: 8W I.M.

County: Kingfisher State of Oklahoma

Terrain at Loc.: Location fell in an open wheat field, 211' North of an existing E-W ROW fence/aerial power line & 325' East of an existing N-S lease road.

Accessibility: From the North,

Directions: From the junction of U.S. Hwy 81 & State Hwy 33 in Kingfisher, OK, go 3.5 miles West on Hwy 33/3, go 3.0 miles South on "NS 281 Rd." to the Southeast Corner of Section 36-16N-8W.



GPS DATUM  
NAD 83  
NAD 27  
OK NORTH ZONE

Surface Hole Loc.  
Lat: 35.81326565  
Lon: -97.99861607  
X: 1968910  
Y: 296043

Surface Hole Loc.  
Lat: 35.81322186  
Lon: -97.99828396  
X: 2000509  
Y: 296019

Landing Point:  
Lat: 35.81478103  
Lon: -97.99594840  
X: 1969701  
Y: 296594

Landing Point:  
Lat: 35.81473727  
Lon: -97.99561631  
X: 2001300  
Y: 296570

Bottom Hole Loc.  
Lat: 35.84128202  
Lon: -97.99590307  
X: 1969714  
Y: 306241

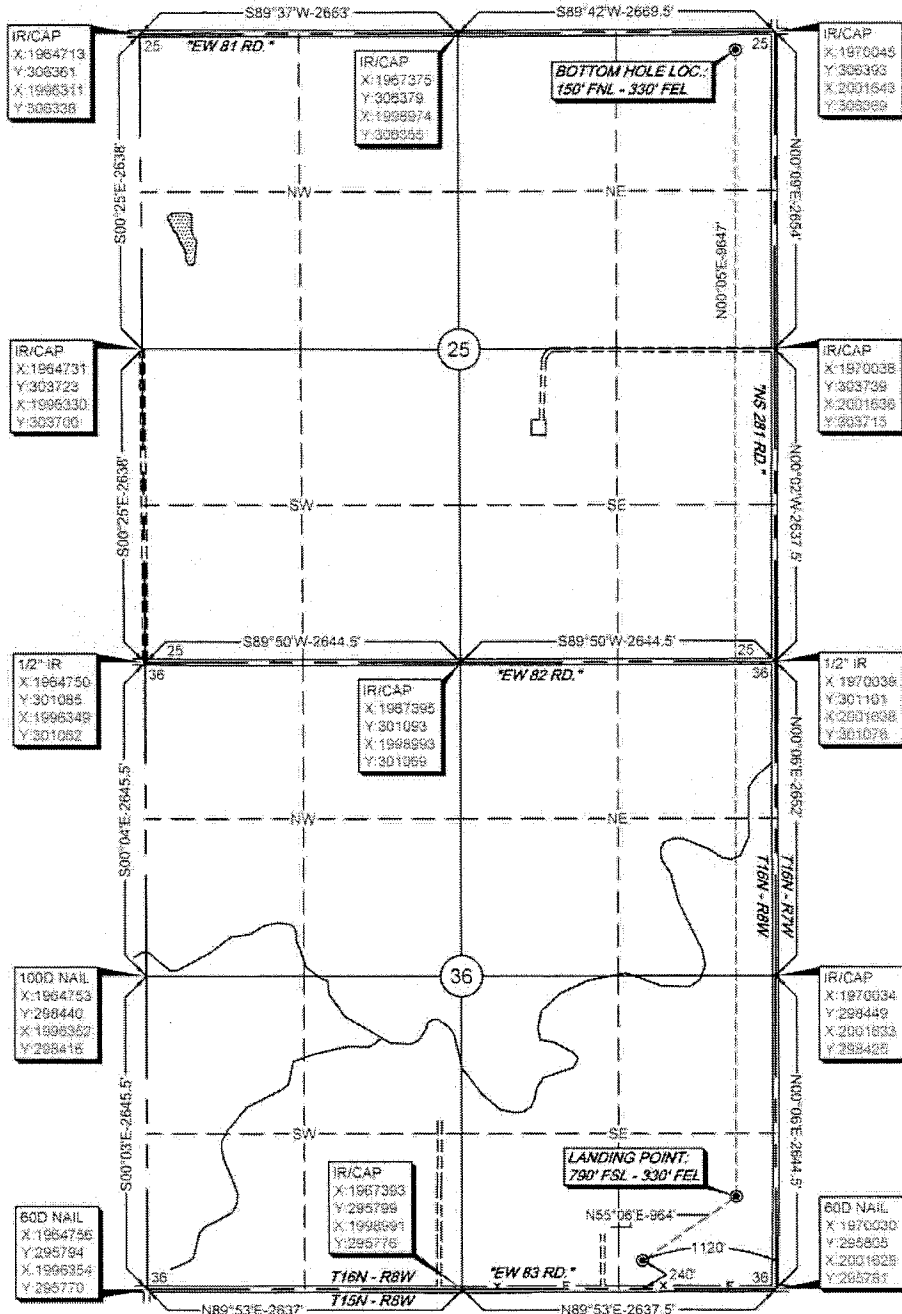
Bottom Hole Loc.  
Lat: 35.84123891  
Lon: -97.99557043  
X: 2001313  
Y: 306217

BASIS OF BEARING:  
GRID NORTH - NAD 83  
STATE PLANE - OK NORTH ZONE

BASIS OF ELEVATION:  
OPUS SOLUTION

Please note that this location was staked on the ground under the supervision of a Licensed Professional Land Surveyor, but the accuracy of this survey is not guaranteed. Please contact Arkoma Surveying and Mapping promptly if any inconsistency is determined. GPS data is observed from RTK - GPS.

Quarter Section distances may be assumed from a Government Survey Plat or assumed as a proportionate distance from opposing section corners, or occupation thereof, and may not have been measured on-the-ground, and further, does not represent a true boundary survey. NOTE: X and Y data shown hereon for Section Corners may NOT have been surveyed on-the-ground, and further, does NOT represent a true Boundary Survey.



Survey and plat by:  
**Arkoma Surveying and Mapping, PLLC**  
P.O. Box 238, Wilburton, OK 74578  
Ph. 918-465-5711 Fax 918-465-5030  
Certificate of Authorization No. 5348  
Expires June 30, 2018

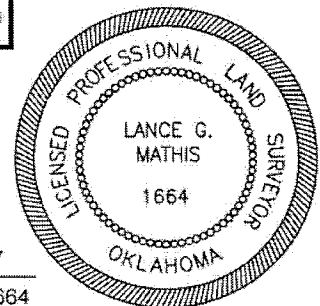
### Certification:

This is to certify that this Well Location Plat represents the results of a survey made on the ground performed under the supervision of the undersigned.

*Lance G. Mathis*  
LANCE G. MATHIS

12/21/17

OK LPLS 1664



Invoice #6927-G  
Date Staked: 02/02/17 By: J.W.  
Date Drawn: 02/06/17 By: K.M.  
Rev. LP & BH: 12/20/17 By: C.K.