

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

API NUMBER: 119 24318

Approval Date: 12/16/2014  
Expiration Date: 06/16/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 13 Twp: 18N Rge: 4E

County: PAYNE

SPOT LOCATION:  NE  SE  SE  SE

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 655 2444

Lease Name: GERMAN 13

Well No: 1-24MH

Well will be 210 feet from nearest unit or lease boundary.

Operator Name: CROWN ENERGY COMPANY

Telephone: 4055260111

OTC/OCC Number: 19779 0

CROWN ENERGY COMPANY  
1117 NW 24TH ST  
OKLAHOMA CITY, OK 73106-5615

GERMAN FAMILY TRUST, LETA GERMAN  
6103 E MCELROY ROAD  
STILLWATER OK 74075

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	3660	6
2			7
3			8
4			9
5			10

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201408852  
201408013

Special Orders:

Total Depth: 9276

Ground Elevation: 853

**Surface Casing: 750**

Depth to base of Treatable Water-Bearing FM: 670

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 14-29181  
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 24 Twp 18N Rge 4E County PAYNE

Spot Location of End Point: SE SE SW SE

Feet From: SOUTH 1/4 Section Line: 200

Feet From: WEST 1/4 Section Line: 1057

Depth of Deviation: 2975

Radius of Turn: 954

Direction: 188

Total Length: 4802

Measured Total Depth: 9276

True Vertical Depth: 3660

End Point Location from Lease,  
Unit, or Property Line: 200

Notes:

Category	Description
PENDING CD - 201408013	12/16/2014 - G91 - (640)(HOR) 24-18N-4E EXT 623500 MSSP, OTHERS POE TO BHL NCT 660' FB (COEXIST PRODUCING NON-HORIZONTAL SPACING UNITS) REC. 12-1-2014 (M. PORTER)
PENDING CD - 201408852	12/16/2014 - G91 - 24-18N-4E X201408013 MSSP COMPL. INT. NCT 150 FNL, NCT 150 FSL, NCT 330 FEL NO OP. NAMED REC. 12-16-2014 (DECKER)

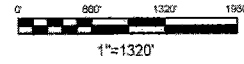


# Well Location Plat

S.H.L. Sec. 13-10N-4E I.M.  
B.H.L. Sec. 24-10N-4E I.M.

119-24318

Operator: CROWN ENERGY RESOURCES, LLC  
Lease Name and No.: GERMAN 13-1-24 MH  
Footage: 655' FSL - 210' FEL GR. ELEVATION: 853' Good Site? YES  
Section: 13 Township: 18N Range: 4E I.M.  
County: Payne State of Oklahoma  
Alternate Loc.: N/A  
Terrain at Loc.: Stake fell in pasture / wheat field.

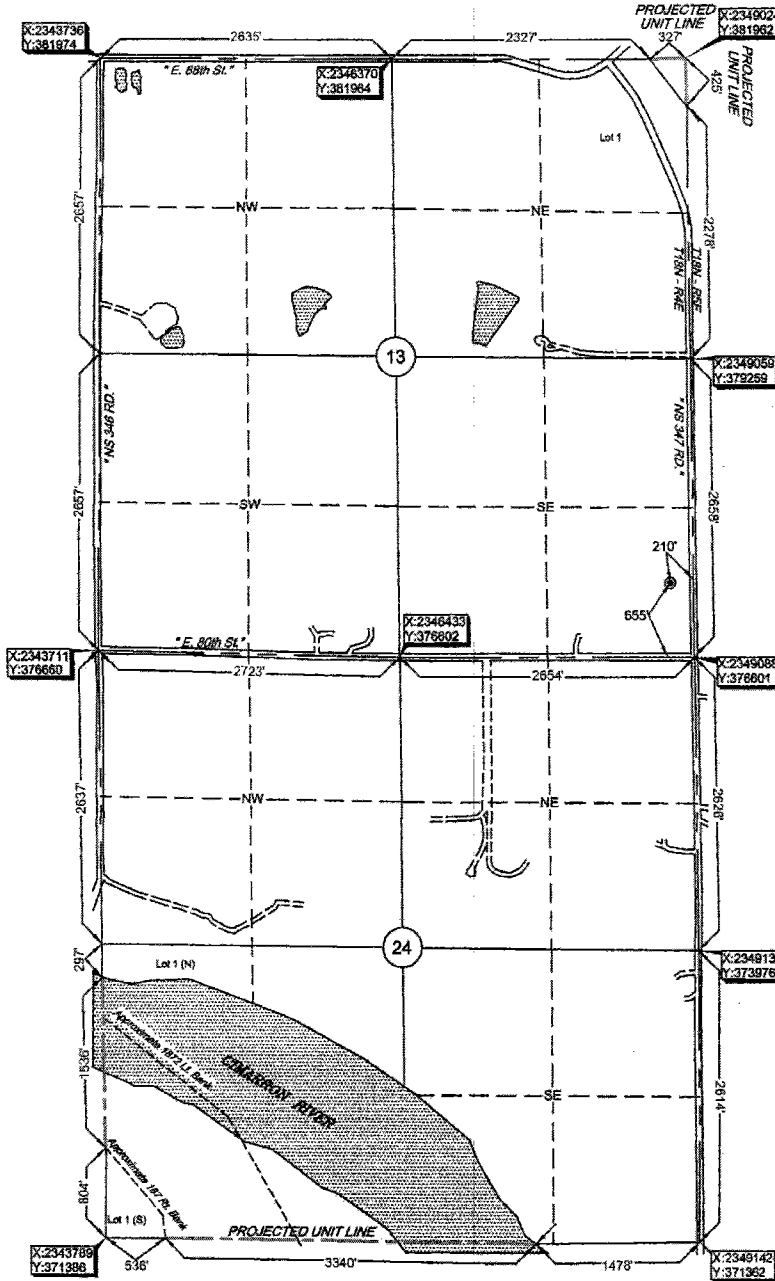


Accessibility: From the South.

Directions: From the intersection of Highway 108 and "CR E. 68th St. (AKA Mehan Rd. / Duncan Rd.)" in the town of Ripley, OK, go 5.0 East on "E. 68th St.", then 1.0 mile South on "NS 347 RD." to the Southeast corner of Section 13-18N-4E.

GPS DATUM  
NAD - 27  
OK NORTH ZONE

Surface Hole Loc.:  
Lat: 36°01'50.06"N  
Lon: 96°49'12.42"W  
X: 2348871  
Y: 377256



Quarter Section distances may be assumed from a Government Survey Plat or assumed at a proportional 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.

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.

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, 2016

Invoice # 4988-B-B  
Date Staked: 10/23/14 By: J.F.  
Date Drawn: 10/24/14 By: J.H.

### 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.

*Stan Drannon* 10/24/14  
STAN DRANNON OK LPLS 1672

