

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

API NUMBER: 063 24611

Approval Date: 09/13/2016  
Expiration Date: 03/13/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 05 Twp: 7N Rge: 11E County: HUGHES  
SPOT LOCATION:  NW  SW  SW  SE FEET FROM QUARTER: FROM SOUTH FROM EAST  
SECTION LINES: 600 2330

Lease Name: ZOE Well No: 4-5H Well will be 600 feet from nearest unit or lease boundary.

Operator Name: PETROQUEST ENERGY LLC Telephone: 3372320044; 9185615 OTC/OCC Number: 21466 0

PETROQUEST ENERGY LLC  
1717 S BOULDER AVE STE 201  
TULSA, OK 74119-4842

ROZANNE TURNER PROPERTIES LLC  
821 E. 11TH ST.  
HOLDENVILLE OK 74848

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

Name	Depth	Name	Depth
1 WOODFORD	5285	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 629162

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201603256

Special Orders:

Total Depth: 10563

Ground Elevation: 892

**Surface Casing: 325**

Depth to base of Treatable Water-Bearing FM: 230

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

**PIT 1 INFORMATION**

Type of Pit System: ON SITE

Type of Mud System: AIR

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: 4

Liner not required for Category: 4

Pit Location is BED AQUIFER

Pit Location Formation: CALVIN

Mud System Change to Water-Based or Oil-Based Mud Requires an Amended Intent (Form 1000).

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

B. Solidification of pit contents.

H. SEE MEMO

E. Haul to Commercial pit facility: Sec. 19 Twn. 8N Rng. 5E Cnty. 125 Order No: 274874

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.

PIT 2 INFORMATION

Type of Pit System: ON SITE
Type of Mud System: WATER BASED
Chlorides Max: 8000 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: 1B
Liner required for Category: 1B
Pit Location is BED AQUIFER
Pit Location Formation: CALVIN

PIT 3 INFORMATION

Type of Pit System: ON SITE
Type of Mud System: OIL BASED
Chlorides Max: 300000 Average: 200000
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: 3
Liner required for Category: 3
Pit Location is BED AQUIFER
Pit Location Formation: CALVIN

HORIZONTAL HOLE 1

Sec 05 Twp 7N Rge 11E County HUGHES
Spot Location of End Point: NE NE NW NE
Feet From: NORTH 1/4 Section Line: 1
Feet From: EAST 1/4 Section Line: 1591
Depth of Deviation: 5125
Radius of Turn: 573
Direction: 5
Total Length: 4538
Measured Total Depth: 10563
True Vertical Depth: 5285
End Point Location from Lease,
Unit, or Property Line: 1

Notes:

Table with 2 columns: Category, Description. Rows include COMPLETION INTERVAL and HYDRAULIC FRACTURING with detailed descriptions.

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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
MEMO	9/9/2016 - G71 - PIT 2 & 3 - CONCRETE-LINED PIT PER OPERATOR REQUEST; PIT 3 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT
PENDING CD - 201603256	9/12/2016 - G75 - 5-7N-11E X629162 WDFD 4 WELLS NO OP. NAMED REC 8-29-2016 (MCKEOWN)
SPACING - 629162	9/12/2016 - G75 - (640)(HOR) 5-7N-11E EST OTHER EXT 618804 WDFD, OTHERS COMPL. INT. NLT 165' FNL & FSL, NLT 330' FEL & FWL

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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.

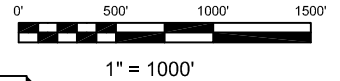


# Well Location Plat

Sec. 5-7N-11E I.M.

Operator : PETROQUEST ENERGY, LLC  
 Lease Name and No. : ZOE 4-5H  
 Footage : 600' FSL - 2330' FEL GR. ELEVATION : 892' Good Site? YES  
 Section : 5 Township : 7N Range : 11E I.M.  
 County : Hughes State of Oklahoma  
 Alternate Loc. : N/A  
 Terrain at Loc. : Location fell in timber with natural drainage areas within proposed pad site.

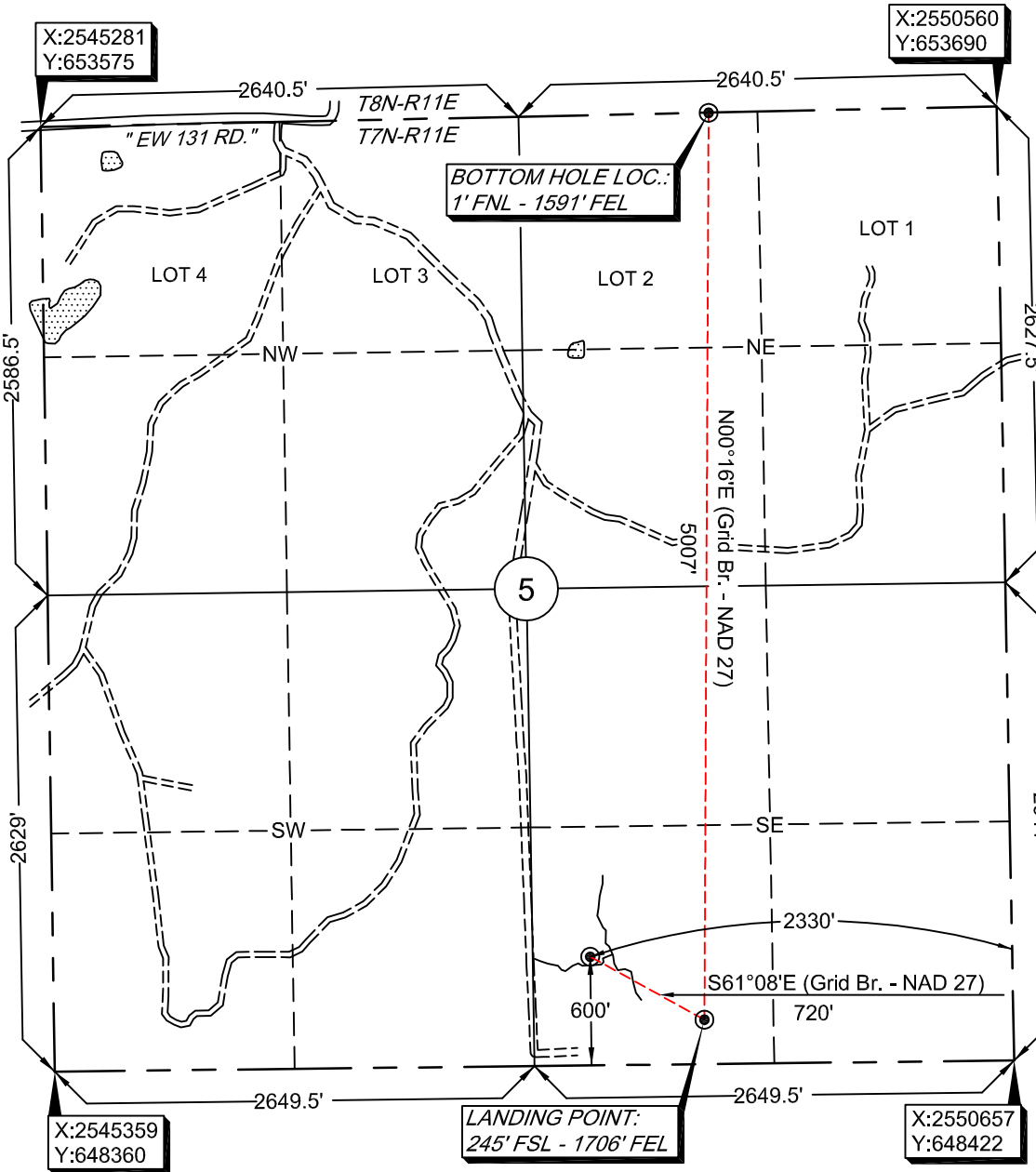
## API 063-24611



Accessibility : From the West.

Directions : From the junction of U.S. Hwy 270 & U.S. Hwy 75 in Horntown, OK, go 2.0 miles North on Hwy 75, and go 4.3 miles East on "EW 131 Rd." to entrance of existing lease road on South side of road. Take existing lease road/2-track road ±1.0 mile South to proposed location in the Southeast Quarter of Section 5-7N-11E.

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



GPS DATUM  
 NAD 27  
 OK SOUTH ZONE

Surface Hole Loc.:  
 Lat: 35°06'10.81"N  
 Lon: 96°10'00.60"W  
 X: 2548317  
 Y: 648995

Landing Point:  
 Lat: 35°06'07.25"N  
 Lon: 96°09'53.09"W  
 X: 2548947  
 Y: 648647

Bottom Hole Loc.:  
 Lat: 35°06'56.77"N  
 Lon: 96°09'51.72"W  
 X: 2548970  
 Y: 653654

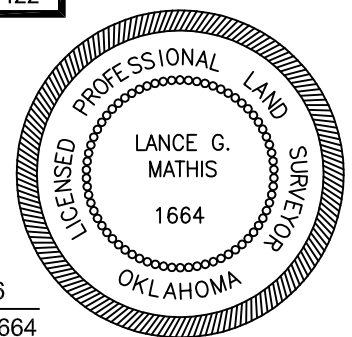
Please note that this location was staked on the ground under the supervision of a Licensed Professional Land Surveyor, but the accuracy of this survey is not guaranteed. Please contact Arkoma Surveying and Mapping promptly if any inconsistency is determined. GPS data is observed from RTK - GPS. NOTE: 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 August 31, 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* 09/13/16  
 LANCE G. MATHIS OK LPLS 1664



Invoice #6409-C  
 Date Staked : 06/01/16 By : H.S.  
 Date Drawn : 06/09/16 By : K.M.  
 Revised SHL : 07/13/16 By : K.M.  
 Added LP/BHL : 09/12/16 By : J.H.