

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

API NUMBER: 121 24744

Approval Date: 04/16/2015
Expiration Date: 10/16/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 18 Twp: 7N Rge: 17E County: PITTSBURG
SPOT LOCATION: SW NE SW SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 850 1880

Lease Name: CAROLYN Well No: 3-19H Well will be 850 feet from nearest unit or lease boundary.

Operator Name: PETROQUEST ENERGY LLC Telephone: 3372327028; 9185615 OTC/OCC Number: 21466 0

PETROQUEST ENERGY LLC
400 E KALISTE SALOOM RD STE 6000
LAFAYETTE, LA 70508-8523

A.J. BRISTOW & ALIEN BRISTOW
145 BRISTOW LANE
MCALESTER OK 74501

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

	Name	Depth	Name	Depth
1	CANEY	7880	6	
2	MAYES	8080	7	
3	WOODFORD	8180	8	
4	HUNTON	8250	9	
5			10	

Spacing Orders: 573277 Location Exception Orders: 638411 Increased Density Orders: 638295

Pending CD Numbers:

Special Orders:

Total Depth: 13733 Ground Elevation: 680 Surface Casing: 500 Depth to base of Treatable Water-Bearing FM: 180

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 not located in a Hydrologically Sensitive Area.

Category of Pit: 4

Liner not required for Category: 4

Pit Location is NON HSA

Pit Location Formation: BOGGY

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.

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

H. SEE MEMO

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: CLOSED Closed System Means Steel Pits

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 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: BOGGY

PIT 3 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

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 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: BOGGY

HORIZONTAL HOLE 1

Sec 19 Twp 7N Rge 17E County PITTSBURG

Spot Location of End Point: SE SE SE SW

Feet From: SOUTH 1/4 Section Line: 1

Feet From: WEST 1/4 Section Line: 2540

Depth of Deviation: 7367

Radius of Turn: 882

Direction: 232

Total Length: 4980

Measured Total Depth: 13733

True Vertical Depth: 8250

End Point Location from Lease,
Unit, or Property Line: 1

Notes:

Category	Description
DEEP SURFACE CASING	4/16/2015 - G71 - APPROVED CONTINGENT ON NOTIFYING OCC FIELD STAFF IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING
INCREASED DENSITY - 638295	4/16/2015 - G91 - 19-7N-17E X573277 WDFD 1 WELL PETROQUEST ENERGY, LLC. 3-26-2015

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
LOCATION EXCEPTION - 638411	4/16/2015 - G91 - (I.O.) 19-7N-17E X573277 CNEY, MYES, WDFD, HNTN SHL NCT 500 FSL, NCT 1600 FEL 18-7N-17E COMPL. INT. NCT 165 FNL, NCT 165 FSL, NCT 2000 FWL PETROQUEST ENERGY, LLC. 3-30-2015
MEMO	4/16/2015 - G71 - PITS 2 & 3 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 3 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 573277	4/16/2015 - G91 - (640) 19-7N-17E VAC OTHER EXT 115934 HNTN EXT 572263 CNEY, MYES, WDFD, 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.