

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

API NUMBER: 019 25879

Approval Date: 04/10/2013
Expiration Date: 10/10/2013

Straight Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 18 Twp: 2S Rge: 2W County: CARTER
SPOT LOCATION: NW SW NE NW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 825 1420

Lease Name: PIERCE UNIT Well No: 16-18 Well will be 505 feet from nearest unit or lease boundary.
Operator Name: MACK ENERGY CO Telephone: 5802525580 OTC/OCC Number: 11739 0

MACK ENERGY CO
P.O. Box 400
DUNCAN, OK 73534-0400

ASA ADAMSON
8732 S. HUDSON
TULSA OK 74137

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

	Name	Depth	Name	Depth
1	PENN SD	2400	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 419302

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 2750

Ground Elevation: 1002

Surface Casing: 1300

Depth to base of Treatable Water-Bearing FM: 1250

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Type of Pit System: ON SITE

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: 2

Liner not required for Category: 2

Pit Location is BED AQUIFER

Pit Location Formation: WELLINGTON

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

Notes:

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.

019 25879 PIERCE UNIT 16-18

Category

Description

SPACING - 419302

4/10/2013 - G30 - (UNIT) NW4 NW4 NW4 & E2 NW4 NW4 & NW4 NE4 NW4 & SW4 NE4 NW4 & E2
NE4 NW4 & W2 SE4 NW4 18-2S-2W
EST PIERCE UNIT FOR PVSD

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.

019 25879 PIERCE UNIT 16-18