

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

API NUMBER: 019 26010

Approval Date: 11/21/2013

Expiration Date: 05/21/2014

Straight Hole

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 08 Twp: 2S Rge: 2W

County: CARTER

SPOT LOCATION: C

NW

SW

NW

FEET FROM QUARTER: FROM

SOUTH

FROM

WEST

SECTION LINES:

990

330

Lease Name: C & J

Well No: 1-8

Well will be 330 feet from nearest unit or lease boundary.

Operator Name: MACK ENERGY CO

Telephone: 5802525580; 5802525

OTC/OCC Number: 11739 0

MACK ENERGY CO

P.O. Box 400

DUNCAN, OK 73534-0400

J PAUL JOHNSON

PO BOX 126

FOX OK 73435

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

	Name	Depth	Name	Depth
1	FUSULINID	1200	6	
2	EASON	1300	7	
3	TUSSY	1400	8	
4	CARPENTER	1500	9	
5	MORRIS	1900	10	

Spacing Orders: 354506

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 3100

Ground Elevation: 968

Surface Casing: 1080

Depth to base of Treatable Water-Bearing FM: 1030

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: ON SITE

A. Evaporation/dewater and backfilling of reserve pit.

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

Notes:

This permit does not address the right of entry or settlement of surface damages.

019 26010 C & J 1-8

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	11/15/2013 - G30 - FUSULINID UNSPACED, 120 ACRE LEASE INCLUDING SW4 NW4
SPACING - 354506	11/15/2013 - G30 - (40) W2 SW4 NW4 & SE4 SW4 NW4 8-2S-2W EXT 68037 MRRS EXT 70173 TSSY, CRPR EST ESON