

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

API NUMBER: 019 25886

Approval Date: 04/25/2013

Expiration Date: 10/25/2013

Straight Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 31 Twp: 1S Rge: 2W

County: CARTER

SPOT LOCATION:  NE  SW  NE  SW

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 821 963

Lease Name: IRBY

Well No: 1-31

Well will be 821 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

MACK ENERGY CO.  
P.O. BOX 400  
DUNCAN OK 73534

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

	Name	Depth	Name	Depth
1	CARPENTER	2475	6	
2	MORRIS	2500	7	
3			8	
4			9	
5			10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 3300

Ground Elevation: 1054

**Surface Casing: 1090**

Depth to base of Treatable Water-Bearing FM: 1040

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: GARBER

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.

Category

Description

SPACING

4/22/2013 - G75 - FORMATIONS UNSPACED; 160-ACRE LEASE (SW4)

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.

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