

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

API NUMBER: 039 22453

Approval Date: 01/02/2015

Expiration Date: 07/02/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 03 Twp: 12N Rge: 20W

County: CUSTER

SPOT LOCATION:

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 250 1650

Lease Name: UNRUH

Well No: 1-3H

Well will be 250 feet from nearest unit or lease boundary.

Operator Name: JMA ENERGY COMPANY LLC

Telephone: 4059474322

OTC/OCC Number: 20475 0

JMA ENERGY COMPANY LLC
1021 NW GRAND BLVD
OKLAHOMA CITY, OK 73118-6039

RODNEY & LORA UNRUH
10230 HWY 34
ELK CITY OK 73644

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

	Name	Depth	Name	Depth
1	DOUGLAS	8550	6	
2	HOXBAR	9850	7	
3			8	
4			9	
5			10	

Spacing Orders: 151393

Location Exception Orders: 618817

Increased Density Orders:

633465

Pending CD Numbers:

Special Orders:

Total Depth: 14250

Ground Elevation: 1862

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 670

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is OTHER HSA

Pit Location Formation: DOXEY

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 14-29159

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: 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: C

Liner not required for Category: C

Pit Location is OTHER HSA

Pit Location Formation: DOXEY

HORIZONTAL HOLE 1

Sec 03 Twp 12N Rge 20W County CUSTER

Spot Location of End Point: W2 NW NE NW

Feet From: NORTH 1/4 Section Line: 330

Feet From: WEST 1/4 Section Line: 1400

Depth of Deviation: 8050

Radius of Turn: 955

Direction: 358

Total Length: 4700

Measured Total Depth: 14250

True Vertical Depth: 9850

End Point Location from Lease,
Unit, or Property Line: 330

Notes:

Category

Description

DEEP SURFACE CASING

1/2/2015 - 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

LOCATION EXCEPTION - 618817

1/2/2015 - G91 - (I.O.) 3-12N-20W
X151393 DGLS, HXBR, OTHERS
COMPL. INT. NCT 330 FNL, NCT 330 FSL, NCT 600 FWL
JMA ENERGY CO., LLC.
12-4-2013

LOCATION EXCEPTION - 633465

1/2/2015 - G91 - EXTEND 618817 UNTIL 12-4-2015

MEMO

1/2/2015 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

SPACING - 151393

1/2/2015 - G91 - (640) 3-12N-20W
EXT 130975 DGLS, HXBR, OTHERS

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039 22453 UNRUH 1-3H