

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

API NUMBER: 039 22433

Approval Date: 05/08/2014

Expiration Date: 11/08/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 03 Twp: 15N Rge: 16W County: CUSTER

SPOT LOCATION: ☐ SW ☐ SW ☐ SE ☐ SE FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 260 1100

Lease Name: BITTERROOT

Well No: 1-10H

Well will be 260 feet from nearest unit or lease boundary.

Operator Name: FELIX ENERGY LLC

Telephone: 7209742062

OTC/OCC Number: 23331 0

FELIX ENERGY LLC
1530 16TH ST STE 500
DENVER , CO 80202-1467

RON JONES
23614 HWY 47
THOMAS OK 73669

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

	Name	Depth	Name	Depth
1	COTTAGE GROVE	8700	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 75676

Location Exception Orders: 623522

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 14000

Ground Elevation: 1814

Surface Casing: 1000

Depth to base of Treatable Water-Bearing FM: 400

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: Yes

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

Type of Pit System: ON SITE

Type of Mud System: WATER BASED

Chlorides Max: 25000 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: 1B

Liner required for Category: 1B

Pit Location is AP/TE DEPOSIT

Pit Location Formation: TERRACE

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 14-27139
H. SOIL COMPACTED PIT, NOTIFY DISTRICT PRIOR TO TESTING SOIL PIT LINER

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.

HORIZONTAL HOLE 1

Sec 10 Twp 15N Rge 16W County CUSTER

Spot Location of End Point: W2 SW SE SE

Feet From: SOUTH 1/4 Section Line: 330

Feet From: EAST 1/4 Section Line: 1100

Depth of Deviation: 7974

Radius of Turn: 573

Direction: 180

Total Length: 4780

Measured Total Depth: 14000

True Vertical Depth: 8700

End Point Location from Lease,

Unit, or Property Line: 330

Notes:

Category

Description

DEEP SURFACE CASING

5/5/2014 - 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 -623522

5/8/2014 - G72 - 10-15N-16W I.O. X 75676 CCGV;
SHL NCT 300 FSL NCT 1000 FEL;
COMP INT. NCT 330 FSL NCL 330 FNL NCT 1000 FEL;
FELIX ENERGY LLC;
4/3/2014

SPACING - 75676

5/8/2014 - G72 - (640) 10-15N-16W
EST CCGV, OTHERS;

SURFACE CASING

5/5/2014 - G71 - MIN. 500' PER ORDERS 42589 & 39839

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039 22433 BITTERROOT 1-10H