

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

API NUMBER: 039 22457

Approval Date: 01/26/2015

Expiration Date: 07/26/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 32 Twp: 15N Rge: 17W

County: CUSTER

SPOT LOCATION:

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 300 1140

Lease Name: CENTENNIAL

Well No: 1-29H

Well will be 300 feet from nearest unit or lease boundary.

Operator Name: FELIX ENERGY LLC

Telephone: 7209742067

OTC/OCC Number: 23331 0

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

ALBERT KORFMAN  
8829 NORTH 2230 ROAD  
CUSTER OK 73639

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

	Name	Depth	Name	Depth
1	COTTAGE GROVE	8930	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 96814  
95729

Location Exception Orders: 633160

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 14210

Ground Elevation: 1837

**Surface Casing: 1500**

Depth to base of Treatable Water-Bearing FM: 350

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: 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: 1B

Liner required for Category: 1B

Pit Location is AP/TE DEPOSIT

Pit Location Formation: TERRACE

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: ON SITE

Type of Mud System: OIL BASED

Chlorides Max: 80000 Average: 70000

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: 3

Liner required for Category: 3

Pit Location is AP/TE DEPOSIT

Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 29 Twp 15N Rge 17W County CUSTER

Spot Location of End Point: NW NW NE NE

Feet From: NORTH 1/4 Section Line: 300

Feet From: EAST 1/4 Section Line: 1140

Depth of Deviation: 8359

Radius of Turn: 605

Direction: 360

Total Length: 4900

Measured Total Depth: 14210

True Vertical Depth: 8930

End Point Location from Lease,  
Unit, or Property Line: 300

Notes:

Category

Description

DEEP SURFACE CASING

1/26/2015 - 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 - 633160

1/26/2015 - G91 - (I.O.) 29-15N-17W  
X95729/96814 CGGV  
COMPL. INT. NCT 330 FSL, NCT 330 FNL, NCT 1320 FEL\*\*  
FELIX ENERGY, LLC.  
11-19-2014

\*\*TO BE CORRECTED AT FINAL HEARING PER OPERATOR\*\*

MEMO

1/26/2015 - G71 - PIT 1 - SOIL COMPACTED PIT, NOTIFY DISTRICT PRIOR TO TESTING SOIL PIT LINER, PIT 2 - 20-MIL PIT LINER REQUIRED, OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

SPACING - 95729

1/26/2015 - G91 - (640) 29-15N-17W  
EST CGGV, OTHERS  
EXT OTHERS

SPACING - 96814

1/26/2015 - G91 - NPT 95729  
AMD EXTENDING ORDER

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039 22457 CENTENNIAL 1-29H