

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

API NUMBER: 039 22459

Approval Date: 02/06/2015

Expiration Date: 08/06/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 06 Twp: 14N Rge: 17W County: CUSTER

SPOT LOCATION: FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 330 800

Lease Name: DOUBLE DIAMOND

Well No: 1-31H

Well will be 330 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

BRYAN HUNTER AND STACI HUNTER
10070 NORTH 2230 ROAD
ARAPAHO OK 73620

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

	Name	Depth	Name	Depth
1	COTTAGE GROVE	9080	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 95279

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201500278

Special Orders:

Total Depth: 14360

Ground Elevation: 1796

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 320

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: 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

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

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: 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: 3

Liner required for Category: 3

Pit Location is AP/TE DEPOSIT

Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 31 Twp 15N Rge 17W County CUSTER

Spot Location of End Point: W2 NE NW NW

Feet From: NORTH 1/4 Section Line: 330

Feet From: WEST 1/4 Section Line: 800

Depth of Deviation: 8507

Radius of Turn: 728

Direction: 360

Total Length: 4709

Measured Total Depth: 14360

True Vertical Depth: 9080

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

Notes:

Category

Description

DEEP SURFACE CASING

2/6/2015 - 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

MEMO

2/6/2015 - 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

PENDING CD - 201500278

2/6/2015 - G91 - (E.O.) 31-15N-17W
X95729/OTHER CGGV
SHL 330 FNL, 800 FWL
COMPL INT NCT 330 FSL, NCT 330 FNL, NCT 800 FWL
NO OP. NAMED
REC. 1-26-2015 (DECKER)

SPACING - 95729

2/6/2015 - G91 - (640) 31-15N-17W
EST CGGV, OTHERS
EXT OTHERS

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039 22459 DOUBLE DIAMOND 1-31H