

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

API NUMBER: 007 25627

Approval Date: 07/19/2013  
Expiration Date: 01/19/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 01 Twp: 1N Rge: 20ECM County: BEAVER

SPOT LOCATION:  NE  NW  NE  NE FEET FROM QUARTER: FROM NORTH FROM EAST  
SECTION LINES: 250 700

Lease Name: KAREN R. FRANKS Well No: 1-1XLH Well will be 250 feet from nearest unit or lease boundary.

Operator Name: CABOT OIL & GAS CORPORATION Telephone: 2818482620 OTC/OCC Number: 18246 0

CABOT OIL & GAS CORPORATION  
840 GESSNER RD STE 1200  
HOUSTON, TX 77024-4142

KAREN RINGER FRANKS 1996 REVOCABLE TRUST  
1020 WEST MOORE AVE.  
STILLWATER OK 74075

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

Name	Depth	Name	Depth
1 MARMATON	6225	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: No Spacing

Location Exception Orders: 201303557

Increased Density Orders:

Pending CD Numbers: 201303556  
201303557

Special Orders:

Total Depth: 16400

Ground Elevation: 2895

**Surface Casing: 1700**

Depth to base of Treatable Water-Bearing FM: 200

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: Yes

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: 60000 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 BED AQUIFER

Pit Location Formation: OGALLALA

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 13-23470  
H. CLOSED SYSTEM=STEEL PITS PER OPERATOR OPTION

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 12 Twp 1N Rge 20E County BEAVER

Spot Location of End Point: E2 SW SE SE

Feet From: SOUTH 1/4 Section Line: 330

Feet From: EAST 1/4 Section Line: 700

Depth of Deviation: 5500

Radius of Turn: 825

Direction: 180

Total Length: 9700

Measured Total Depth: 16400

True Vertical Depth: 6325

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

Notes:

Category	Description
DEEP SURFACE CASING	7/19/2013 - 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
PENDING CD - 201303556	7/19/2013 - G30 - (640HOR)(IRR) E2 1 & E2 12-1N-20ECM EXT 610308 MRMN (SUPERSEDE NON-DEVELOPED, NON-HORIZONTAL SPACING UNITS) REC 7/16/13 (CANDLER)
PENDING CD - 201303557	7/19/2013 - G30 - E2 1 & E2 12-1N-20ECM X201303556 MRMN COMP. INT. NCT 330 FNL, NCT 330 FSL, NCT 660 FEL NO OP. NAMED REC 7/16/13 (CANDLER)

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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.

007 25627 KAREN R. FRANKS 1-1XLH