

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

API NUMBER: 139 24610

Approval Date: 04/21/2014
Expiration Date: 10/21/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 36 Twp: 2N Rge: 19ECM County: TEXAS

SPOT LOCATION: SW SW SE SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 210 1000

Lease Name: LITTAU Well No: 1-36H Well will be 210 feet from nearest unit or lease boundary.

Operator Name: UNIT PETROLEUM COMPANY Telephone: 9184937700; 9184937 OTC/OCC Number: 16711 0

UNIT PETROLEUM COMPANY
PO BOX 702500
TULSA, OK 74170-2500

SAM LITTAU AND TERESA LITTAU, HW JT
ROUTE 1, BOX 114A
BALCO OK 73931

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

Name	Depth	Name	Depth
1 MARMATON	5800	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 620684

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201308533

Special Orders:

Total Depth: 10873

Ground Elevation: 2781

Surface Casing: 1995

Depth to base of Treatable Water-Bearing FM: 390

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: 20000 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 not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: PERMIAN

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 14-26715
H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

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 36 Twp 2N Rge 19E County TEXAS

Spot Location of End Point: NW NW NE NE

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 1000

Depth of Deviation: 5500

Radius of Turn: 740

Direction: 360

Total Length: 4500

Measured Total Depth: 10598

True Vertical Depth: 5824

End Point Location from Lease,
Unit, or Property Line: 165

HORIZONTAL HOLE 2

Sec 36 Twp 2N Rge 19E County TEXAS

Spot Location of End Point: NW NW NE NE

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 1000

Depth of Deviation: 5500

Radius of Turn: 740

Direction: 360

Total Length: 4500

Measured Total Depth: 10873

True Vertical Depth: 5989

End Point Location from Lease,
Unit, or Property Line: 165

Notes:

Category

Description

DEEP SURFACE CASING

4/11/2014 - 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 - 622464

4/21/2014 - G72 - 36-2N-19ECM X 620684 MRMN;
SHL NCT 50 FSL NCT 100 FEL;
COMP INT NCT 165 FSL NCT 165 FNL NCT 660 FEL;
COMP INT NLT 660' FROM OPPOSITE BOUNDARY.
UNIT PETROLEUM COMPANY
4/11/2014

SPACING - 620684

4/21/2014 - G72 -36-2N-19ECM (640/ 80)
VAC 83284 (80) MRMN;
EXT 616226 (640) HORZ MRMN;
660' FB.

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