

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

API NUMBER: 039 22449 A

Approval Date: 10/28/2014

Expiration Date: 04/28/2015

Horizontal Hole Oil & Gas

Amend reason: AMEND BHL AND TD

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 27 Twp: 15N Rge: 14W

County: CUSTER

SPOT LOCATION: S2 SE SE SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 215 330

Lease Name: AKIN

Well No: 1-27-22XH

Well will be 215 feet from nearest unit or lease boundary.

Operator Name: CONTINENTAL RESOURCES INC

Telephone: 4052349000; 4052349

OTC/OCC Number: 3186 0

CONTINENTAL RESOURCES INC  
PO BOX 269000  
OKLAHOMA CITY, OK 73126-9000

MANNERING IRREVOCABLE TRUST  
DEE ANN (MANNERING) MOORE, CO-TRUSTEE  
RT. 3 BOX 126  
WATONGA OK 73772

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	13081	6	
2	WOODFORD	13964	7	
3	HUNTON	14070	8	
4			9	
5			10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201407301  
201407300  
201407505  
201407504

Special Orders:

Total Depth: 24104

Ground Elevation: 1696

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 50

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

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

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 14-28333

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 22 Twp 15N Rge 14W County CUSTER

Spot Location of End Point: NW NE NE NE

Feet From: NORTH 1/4 Section Line: 60

Feet From: EAST 1/4 Section Line: 350

Depth of Deviation: 13547

Radius of Turn: 478

Direction: 360

Total Length: 9807

Measured Total Depth: 24104

True Vertical Depth: 14070

End Point Location from Lease,  
Unit, or Property Line: 60

Additional Surface Owner	Address	City, State, Zip
COLEEN MANNERING LIFE ESTATE	907 N. 6TH	THOMAS, OK 73669
MANNERING IRREVOCABLE TRUST	8582 N. 2290 ROAD BRYAN E. MANNERING, CO-TRU	CUSTER CITY, OK 73639
MANNERING IRREVOCABLE TRUST	22995 E 840 ROAD MARK ALLEN MANNERING, CO-T	CUSTER CITY, OK 73639

Notes:

Category

Description

DEEP SURFACE CASING

10/20/2014 - 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

INTERMEDIATE CASING

10/20/2014 - G71 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE MORROW SERIES

MEMO

10/20/2014 - G71 - PITS 1 & 2 - CONCRETE LINED PIT PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS HAULED TO DEQ APPROVED FACILITY - PAUL VALLEY LANDFILL (GARVIN) - 3525009 - SOUTHERN PLAINS LANDFILL (GRADY) - 3526013

PENDING CD - 201407300

10/28/2014 - G72 - (640) 22-15N-14W  
EXT 593842 WDFD, HNTN,  
EXT OTHERS  
EST MSSP,  
REC 10/20/2014 (CANDLER)

PENDING CD - 201407301

10/28/2014 - G72 - (640) 27-15N-14W  
VAC 214725 MSSCT,  
EXT 593842 WDFD, HNTN, OTHERS,  
EST MSSP  
REC 10/20/2014 (CANDLER)

This permit does not address the right of entry or settlement of surface damages.

039 22449 AKIN 1-27-22XH

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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.

Category	Description
PENDING CD - 201407504	10/28/2014 - G72 - (MULTI) 27 & 22-15N-14W (E.O.) EST WDFD SHALE RES, X 201407300 & 201407301 MSSP, WDFD, HNTN, 50%/50% NO OPER NAMED, REC 10/17/2014 (NORRIS)
PENDING CD - 201407505	10/28/2014 - G72 - 27 & 22-15N-14W (E.O.) X 201407300 & 201407301 MSSP, WDFD, HNTN, SHL NCT 215 FSL NCT 330 FEL 27-15N-14W, COMP INT. SEC 27 NCT 150 FSL NCT 0 FNL NCT 330 FEL, COMP INT. SEC 22 NCT 0 FSL NCT 150 FNL NCT 330 FEL, NO OPER NAMED, REC 10/17/2014 (NORRIS)