

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

API NUMBER: 011 23685

Approval Date: 11/17/2016
Expiration Date: 05/17/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 20 Twp: 15N Rge: 12W

County: BLAINE

SPOT LOCATION: SW SW SW SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 230 255

Lease Name: IKE

Well No: 1-20-17XH

Well will be 230 feet from nearest unit or lease boundary.

Operator Name: CONTINENTAL RESOURCES INC

Telephone: 4052349020; 4052349

OTC/OCC Number: 3186 0

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

CHRIS DIDIER
RT. 1, BOX 550
FAY OK 73646

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	10800	6	
2	MISSISSIPPI LIME	11500	7	
3			8	
4			9	
5			10	

Spacing Orders: 582206
650472
587886

Location Exception Orders: 649601

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 22393

Ground Elevation: 1745

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 290

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

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.

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 16-31834

H. SEE MEMO

E. Haul to Commercial pit facility: Sec. 31 Twn. 12N Rng. 8W Cnty. 17 Order No: 587498

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: 250000
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 17 Twp 15N Rge 12W County BLAINE
Spot Location of End Point: N2 NW NW NW
Feet From: NORTH 1/4 Section Line: 50
Feet From: WEST 1/4 Section Line: 330
Depth of Deviation: 11841
Radius of Turn: 477
Direction: 1
Total Length: 9803
Measured Total Depth: 22393
True Vertical Depth: 12500
End Point Location from Lease,
Unit, or Property Line: 50

Notes:

Table with 2 columns: Category, Description. Rows include DEEP SURFACE CASING, HYDRAULIC FRACTURING, INTERMEDIATE CASING, and LOCATION EXCEPTION - 649601 with detailed descriptions.

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.

Category	Description
MEMO	11/15/2016 - G71 - PIT 1 & 2 - CONCRETE-LINED PIT PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT
SPACING - 582206	11/15/2016 - G75 - (640) 17-15N-12W EXT 576904 MSSLM, OTHERS
SPACING - 587886	11/15/2016 - G75 - (640) 20-15N-12W VAC OTHERS EXT OTHERS EXT 580301 MSSP, OTHERS EST OTHERS
SPACING - 650472	11/15/2016 - G75 - (I.O.) 20 & 17-15N-12W EST MULTIUNIT HORIZONTAL WELL X582206 MSSLM, OTHERS 17-15N-12W X587886 MSSP, OTHER 20-15N-12W 50% 20-15N-12W 50% 17-15N-12W CONTINENTAL RESOURCES, INC. 3-3-2016

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.



Well Location Plat

S.H.L. Sec. 20-15N-12W I.M.
B.H.L. Sec. 17-15N-12W I.M.

Operator: CONTINENTAL RESOURCES, INC.

API 011-23685

Lease Name and No. : IKE #1-20-17XH

Footage : 230' FSL - 255' FWL GR. ELEVATION : 1745' Good Site? YES

Section: 20 Township: 15N Range: 12W I.M.

County : Blaine State of Oklahoma

Alternate Loc.: N/A

Terrain at Loc. : Location fell in rolling hills with scrub oaks and tall grass.

Accessibility : From the South.

Directions : From the intersection of US Highway 270 and "EW 88 RD." due West of the town of Greenfield, OK, go 1.5 miles West on "EW 88 RD.", 0.5 miles South on "NS 257 RD.", 5.0 miles West on "EW 89 RD.", and 2.0 miles North on "NS 252 RD." to the Southwest Corner of Section 20-15N-12W.



1"=1320'

GPS DATUM
NAD - 27
OK NORTH ZONE

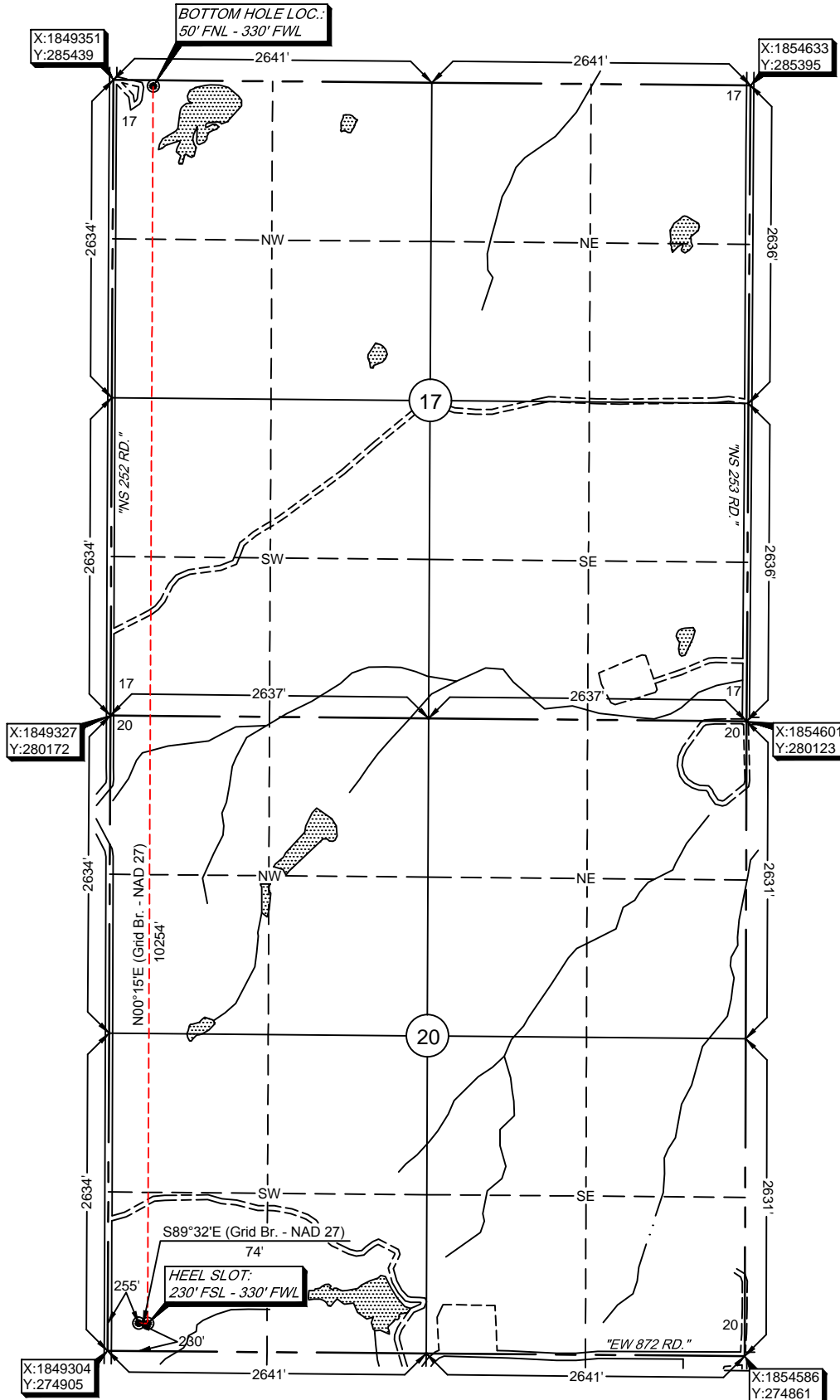
Surface Hole Loc.:
Lat: 35°45'17.15"N
Lon: 98°30'25.21"W
X: 1849561
Y: 275132

Heel Slot:
Lat: 35°45'17.15"N
Lon: 98°30'24.31"W
X: 1849635
Y: 275132

Bottom Hole Loc.:
Lat: 35°46'58.56"N
Lon: 98°30'24.41"W
X: 1849681
Y: 285386

Please note that this location was staked on the ground under the supervision of a Licensed Professional Land Surveyor, but the accuracy of this survey is not guaranteed. Please contact Arkoma Surveying and Mapping promptly if any inconsistency is determined. GPS data is observed from RTK - GPS. NOTE: X and Y data shown hereon for Section Corners may NOT have been surveyed on-the-ground, and further, does NOT represent a true Boundary Survey.

Quarter Section distances may be assumed from a Government Survey Plat or assumed at a proportionate distance from opposing section corners, or occupation thereof, and may not have been measured on-the-ground, and further, does not represent a true boundary survey.



survey and plat by,
Arkoma Surveying and Mapping, PLLC
P.O. Box 238 Wilburton, OK 74578
Ph. 918-465-5711 Fax 918-465-5030
Certificate of Authorization No. 5348
Expires June 30, 2016

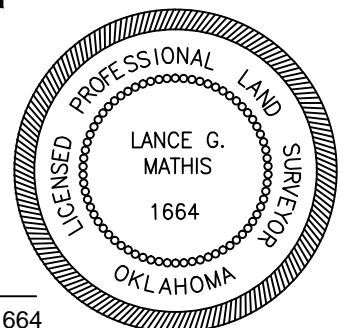
Certification:

This is to certify that this Well Location Plat represents the results of a survey made on the ground performed under the supervision of the undersigned.

Lance G. Mathis
LANCE G. MATHIS

12/21/15

OK LPLS 1664



Invoice #6044-A

Date Staked : 12/14/15 By : H.N.

Date Drawn : 12/17/15 By : J.H.