

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 A

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

Horizontal Hole Oil & Gas

Amend reason: CHANGE SURFACE HOLE LOCATION, GROUND ELEVATION & TOTAL DEPTH

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 29 Twp: 15N Rge: 12W County: BLAINE  
SPOT LOCATION:  NE  SW  NW  NW FEET FROM QUARTER: FROM NORTH FROM WEST  
SECTION LINES: 725 530

Lease Name: IKE Well No: 1-20-17XH Well will be 530 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: 23365

Ground Elevation: 1762

**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 BED AQUIFER

Pit Location Formation: RUSH SPRINGS

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 BED AQUIFER
Pit Location Formation: RUSH SPRINGS

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: 358
Total Length: 10775
Measured Total Depth: 23365
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 PITS 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

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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. 29-15N-12W I.M.  
B.H.L. Sec. 17-15N-12W I.M.

Operator: CONTINENTAL RESOURCES, INC.  
Lease Name and No.: IKE #1-20-17XH (ALT.)  
Footage: 725' FNL - 530' FWL GR. ELEVATION: 1762' Good Site? YES  
Section: 29 Township: 15N Range: 12W I.M.  
County: Blaine State of Oklahoma  
Alternate Loc.: YES  
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 Northwest Corner of Section 29-15N-12W.

## API 011-23685 A



1"=1500'

GPS DATUM  
NAD - 27  
OK NORTH ZONE

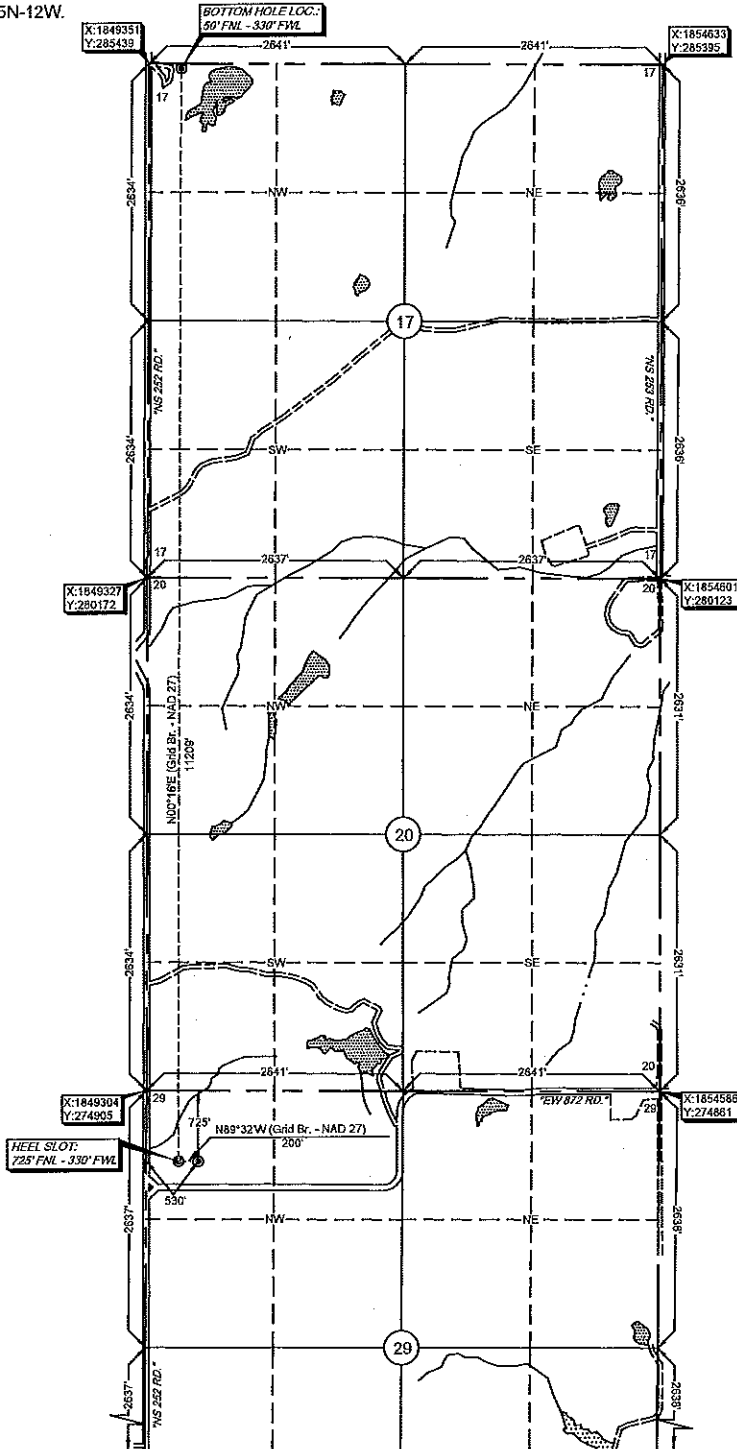
Surface Hole Loc.:  
Lat: 35°45'07.69"N  
Lon: 98°30'21.91"W  
X: 1849828  
Y: 274175

Heel Slot:  
Lat: 35°45'07.70"N  
Lon: 98°30'24.34"W  
X: 1849628  
Y: 274177

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.

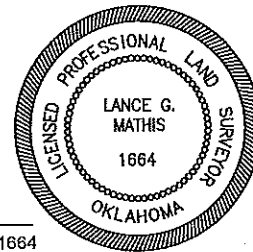
Quarter Section distances may be assumed from a Government Survey Plat or assumed at a proportionate distance from opposing section corners, or occupation thereof, and may not have been measured on-the-ground, and further, does not represent a true boundary survey.



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-B  
Date Staked: 12/14/15 By: H.N.  
Date Drawn: 12/17/15 By: J.H.