

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

API NUMBER: 011 23606

Approval Date: 05/17/2016

Expiration Date: 11/17/2016

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 24 Twp: 16N Rge: 11W

County: BLAINE

SPOT LOCATION: ☐ SE ☐ NE ☐ NW ☐ NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 545 1565

Lease Name: BERNHARDT

Well No: 4-13H

Well will be 545 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

VIRGINIA A. PETTY
11798 E. 850 RD.
OKARCHE OK 73762

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	10165	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 597601

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201601779
201601776

Special Orders:

Total Depth: 14935

Ground Elevation: 1417

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

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 not located in a Hydrologically Sensitive Area.

Category of Pit: 2

Liner not required for Category: 2

Pit Location is NON HSA

Pit Location Formation: BLAINE

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

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

PERMIT NO: 16-31253

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: 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 not located in a Hydrologically Sensitive Area.

Category of Pit: 3

Liner required for Category: 3

Pit Location is NON HSA

Pit Location Formation: BLAINE

HORIZONTAL HOLE 1

Sec 13 Twp 16N Rge 11W County BLAINE

Spot Location of End Point: N2 N2 N2 NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 1320

Depth of Deviation: 9688

Radius of Turn: 750

Direction: 3

Total Length: 4069

Measured Total Depth: 14935

True Vertical Depth: 10363

End Point Location from Lease,
Unit, or Property Line: 50

Notes:

Category

Description

DEEP SURFACE CASING

5/13/2016 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

5/13/2016 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK [HTTP://FRACFOCUS.ORG/](http://fracfocus.org/) WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE.

INTERMEDIATE CASING

5/13/2016 - 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

5/13/2016 - G71 - PIT 1 & 2 - CONCRETE-LINED PIT PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

PENDING CD - 201601776

5/13/2016 - G75 - 13-16N-11W
X597601 MSSP
4 WELLS
NO OP. NAMED
HEARING 6-6-2016

PENDING CD - 201601779

5/13/2016 - G75 - (E.O.) 13-16N-11W
X597601 MSSP, OTHERS
COMPL. INT. NCT 150 FSL, NCT 150 FNL, NCT 330 FEL
CONTINENTAL RESOURCES, INC.
REC 5-17-2016 (LEAVITT)

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.

011 23606 BERNHARDT 4-13H

Category	Description
SPACING - 597601	5/13/2016 - G75 - (640) 13-16N-11W VAC OTHER VAC 158949 MCSTR, OTHER EST MSSP, OTHERS EXT OTHERS

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

Operator : CONTINENTAL RESOURCES, INC.

API 011-23606

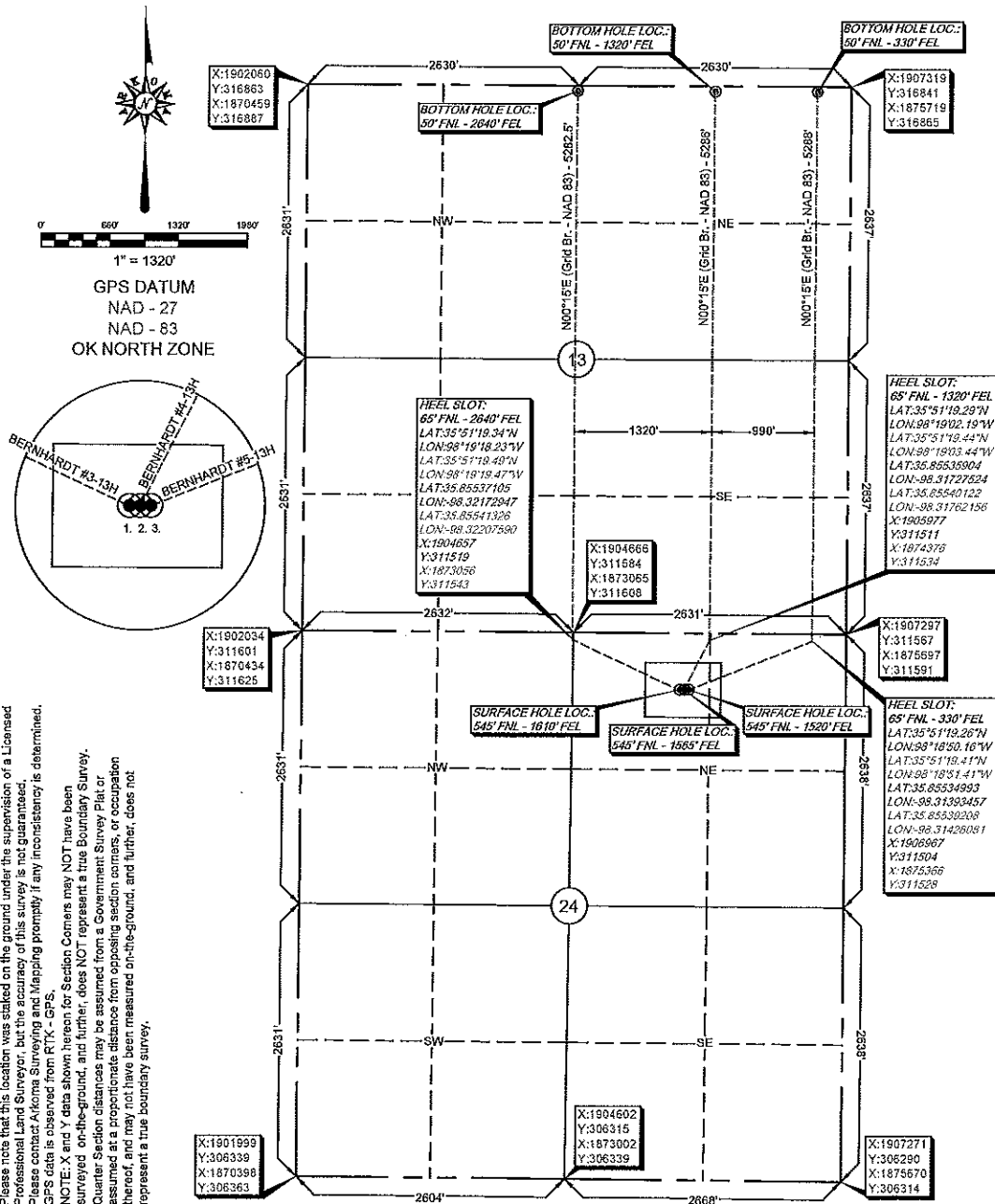
EXHIBIT "A"

S.H.L. Sec. 24-16N-11W I.M.

B.H.L. Sec. 13-16N-11W I.M.

BLAINE COUNTY

LEASE NAME	SHL	NAT. OR ELEV.	LATITUDE	LONGITUDE	EASTING	NORTHING	BHL	LATITUDE	LONGITUDE	EASTING	NORTHING	DESIGN ELEV.
1. BERNHARDT #3-13H	545' FNL - 1610' FEL	1418'	35°51'14.55"N 35°51'14.71"N 35.85404303 35.85408525	98°19'05.72"W 98°19'06.97"W -98.31825667 -98.31860298	1905084 1874084	311032 311056	50' FNL 2640' FEL	35°52'11.58"N 35°52'11.73"N 35.86988319 35.86992500	98°19'18.16"W 98°19'19.41"W -98.32171272 -98.32205948	1904679 1872079	316802 316826	1418'
2. BERNHARDT #4-13H	545' FNL - 1565' FEL	1417'	35°51'14.55"N 35°51'14.71"N 35.85404303 35.85408525	98°19'05.72"W 98°19'06.97"W -98.31825667 -98.31860298	1905729 1874129	311032 311056	50' FNL 1320' FEL	35°52'11.57"N 35°52'11.72"N 35.86987989 35.86992167	98°19'02.13"W 98°19'03.38"W -98.31725766 -98.31769451	1905989 1874399	316795 316820	1416'
3. BERNHARDT #5-13H	545' FNL - 1520' FEL	1415'	35°51'14.55"N 35°51'14.71"N 35.85404303 35.85408525	98°19'05.72"W 98°19'06.97"W -98.31825667 -98.31860298	1905774 1874174	311032 311056	50' FNL 330' FEL	35°52'11.57"N 35°52'11.71"N 35.86987731 35.86991906	98°18'50.10"W 98°18'51.35"W -98.31391630 -98.31426294	1906989 1875269	316792 316816	1416'



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 herein 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 as 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

Invoice #6363
Date Staked : 05/05/16 By : J.W.
Date Drawn : 05/09/16 By : J.H.

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 05/10/16
LANCE G. MATHIS OK LPLS 1664

