

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

API NUMBER: 011 24009

Approval Date: 05/10/2018

Expiration Date: 11/10/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 22 Twp: 15N Rge: 11W

County: BLAINE

SPOT LOCATION: ☐ SE ☐ NE ☐ NW ☐ NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 415 1420

Lease Name: HOMSEY

Well No: 5-22-27XHM

Well will be 415 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

RODNEY E. & CAROL A. COWAN
858455 NORTH 2600 ROAD
WATONGA OK 73772

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

Name	Depth	Name	Depth
1 MISSISSIPPI	11290	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 579436
578803

Location Exception Orders:

Increased Density Orders: 664809

Pending CD Numbers: 201803085
201803005
201803082

Special Orders:

Total Depth: 21180

Ground Elevation: 1457

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 100

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

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: 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: C

Liner not required for Category: C

Pit Location is ALLUVIAL

Pit Location Formation: ALLUVIUM

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

PERMIT NO: 18-34335

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: CLOSED Closed System Means Steel Pits

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: C

Liner not required for Category: C

Pit Location is ALLUVIAL

Pit Location Formation: ALLUVIUM

HORIZONTAL HOLE 1

Sec 27 Twp 15N Rge 11W County BLAINE

Spot Location of End Point: SW SW SE SE

Feet From: SOUTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 1155

Depth of Deviation: 10813

Radius of Turn: 464

Direction: 175

Total Length: 9638

Measured Total Depth: 21180

True Vertical Depth: 11887

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

Notes:

Category

Description

DEEP SURFACE CASING

5/1/2018 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

5/1/2018 - G71 - OCC 165:10-3-10 REQUIRES:

1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE;

2) WITH NOTICE ALSO GIVEN 48 HOURS IN ADVANCE OF HYDRAULIC FRACTURING ALL WELLS TO BOTH THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES, USING THE "FRAC NOTICE FORM" FOUND AT THE FOLLOWING LINK: OCCEWEB.COM/OG/OGFORMS.HTML; AND,

3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION THE HYDRAULIC FRACTURING OPERATIONS, USING THE FOLLOWING LINK: FRACFOCUS.ORG

INCREASED DENSITY - 664809

5/9/2018 - G60 - 22-15N-11W
X579436 MISS
9 WELLS
CONTINENTAL RESOURCES, INC.
6/13/17

INTERMEDIATE CASING

5/1/2018 - 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

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 24009 HOMSEY 5-22-27XHM

Category	Description
MEMO	5/1/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 201803005	5/9/2018 - G60 - 27-15N-11W X579436 MISS 4 WELLS CONTINENTAL RESOURCES, INC. 5/7/18
PENDING CD - 201803082	5/9/2018 - G60 - (640) 22 & 27-15N-11W EST MULTIUNIT HORIZONTAL WELL X579436 (22-15N-11W) MISS X578803 (27-15N-11W) MISS 50% 22-15N-11W 50% 27-15N-11W NO OP. NAMED 5/7/18
PENDING CD - 201803085	5/9/2018 - G60 - (I.O.) 22 & 27-15N-11W X579436 (22-15N-11W) MISS X578803 (27-15N-11W) MISS X165:10-3-28(C)(2)(B) MISS MAY BE CLOSER THAN 600' TO PROPOSED NEARBY WELLS COMPL. INT. (22-15N-11W) NCT 150' FNL, NCT 0' FSL, NCT 990' FEL COMPL. INT. (27-15N-11W) NCT 0' FNL, NCT 150' FSL, NCT 990' FEL NO OP. NAMED 5/7/18
SPACING - 578803	5/9/2018 - G60 - (640) 27-15N-11W EXT 563805 MISS, OTHERS
SPACING - 579436	5/9/2018 - G60 - (640) 22-15N-11W EXT OTHERS EST MISS

3501124009

EXHIBIT: A (1 of 4)

SHEET: 8.5x11

SHL: 22-15N-11W

BHL-4 27-15N-11W

BHL-5 27-15N-11W



COVER SHEET

CONTINENTAL RESOURCES, INC.

P.O. BOX 26900 OKLAHOMA CITY, OK 73126 * (T) 1-800-256-8955 (F) 405-234-9253

Section 22 Township 15N Range 11W I.M.

Well: HOMSEY 4-22-27XHM

County BLAINE State OK

Well: HOMSEY 5-22-27XHM

Operator CONTINENTAL RESOURCES, INC.

NAD-83

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W4	HOMSEY 4-22-27XHM	279593	1863625	35° 46' 03.18" -98° 21' 12.64"	35.767551 -98.353510	385' FNL / 1420' FEL (NE/4 SEC 22)	1457.22	1453.39
LP-4	LANDING POINT	279593	1863065	35° 46' 03.17" -98° 21' 19.43"	35.767547 -98.355398	385' FNL / 1980' FEL (NW/4 SEC 22)	--	--
BHL-4	BOTTOM HOLE LOCATION	269477	1863019	35° 44' 23.12" -98° 21' 19.54"	35.739756 -98.355428	50' FSL / 1980' FEL (SE/4 SEC 27)	--	--
W5	HOMSEY 5-22-27XHM	279563	1863625	35° 46' 02.89" -98° 21' 12.64"	35.767489 -98.353510	415' FNL / 1420' FEL (NE/4 SEC 22)	1457.00	1453.39
LP-5	LANDING POINT	279563	1863890	35° 46' 02.89" -98° 21' 09.42"	35.767471 -98.352617	415' FNL / 1155' FEL (NE/4 SEC 22)	--	--
BHL-5	BOTTOM HOLE LOCATION	269470	1863844	35° 44' 23.08" -98° 21' 09.53"	35.739745 -98.352648	50' FSL / 1155' FEL (SE/4 SEC 27)	--	--
X-1	KARNES #1-22 SWD	278659	1864039	35° 45' 53.97" -98° 21' 07.57"	35.764991 -98.352104	22-15N-11W:E2E2W2NE4 TD: 4,750' 1,320' FSL / 1,005' FWL	--	--
X-2	MINS #1	278038	1861082	35° 45' 27.94" -98° 21' 43.34"	35.757761 -98.362038	22-15N-11W:SW4 TD: 10,234' 1,320' FSL / 1,320' FWL	--	--
X-3	COWAN #1-22	278663	1863368	35° 45' 53.98" -98° 21' 15.71"	35.764995 -98.354364	22-15N-11W:W2E2W2NE4 TD: 4,750' 1,320' FSL / 955' FWL	--	--
X-4	EVICK #1-22H	274894	1864489	35° 45' 16.74" -98° 21' 01.95"	35.754651 -98.350541	22-15N-11W:SW4SE4SE4SE4 TD: 16,892' 200' FSL / 550' FEL	--	--
X-5	HOMSEY #3-22-27XH	279741	1861245	35° 46' 04.56" -98° 21' 41.53"	35.767934 -98.361535	22-15N-11W:NW4NE4NW4NW4 TD: 21,584' 260' FNL / 690' FWL	--	--
X-6	EWING #1	273378	1863705	35° 45' 01.73" -98° 21' 11.39"	35.750480 -98.353165	27-15N-11W:NE4 TD: 10,362' 1,320' FSL / 1,320' FWL	--	--
X-7	HOAR UNIT #1	273398	1861417	35° 45' 01.83" -98° 21' 39.15"	35.750510 -98.360874	27-15N-11W:NW4 TD: 10,400' 1,320' FSL / 1,670' FWL	--	--
X-8	LOWMAN #1	273400	1861067	35° 45' 01.85" -98° 21' 43.39"	35.750514 -98.362053	27-15N-11W:NW4 TD: 10,275' 1,320' FSL / 1,320' FWL	--	--
X-9	GUENTHER #1-27	270076	1864352	35° 44' 29.09" -98° 21' 03.40"	35.741414 -98.350944	27-15N-11W:SE4SE4 TD: 10,350' 660' FSL / 1,980' FWL	--	--
X-10	TILL #1-27H	269710	1862180	35° 44' 25.39" -98° 21' 29.72"	35.740386 -98.358256	27-15N-11W:SE4SE4SE4SW4 TD: 18,900' 275' FSL / 2,440' FWL	--	--

Certificate of Authorization No. 7318

Date Staked: 04-09-18

Date Drawn: 04-09-18



Prepared By:
Petro Land Services South
10400 Vineyard Blvd.
Suite C
Oklahoma City, OK 73120

REVISIONS

No.	DATE	BY	DESCRIPTION	COMMENTS
00	04-09-18	MJL	ISSUED FOR APPROVAL	--
01	04-20-18	MJL	REV. PAD & WELL LOCATION	REV. ALL SHEETS
02	04-24-18	MJL	REV. WELL NAMES	REV. ALL SHEETS

3501124009

EXHIBIT: A (4 of 4)

SHEET: 8.5x14

SHL: 22-15N-11W

BHL-5 27-15N-11W

PETRO LAND SERVICES SOUTH, LLC

10400 VINEYARD BLVD. SUITE C, OKLA. CITY, OKLA. 73120 • OFFICE (405) 212-3108
Certificate of Authorization No. 7318

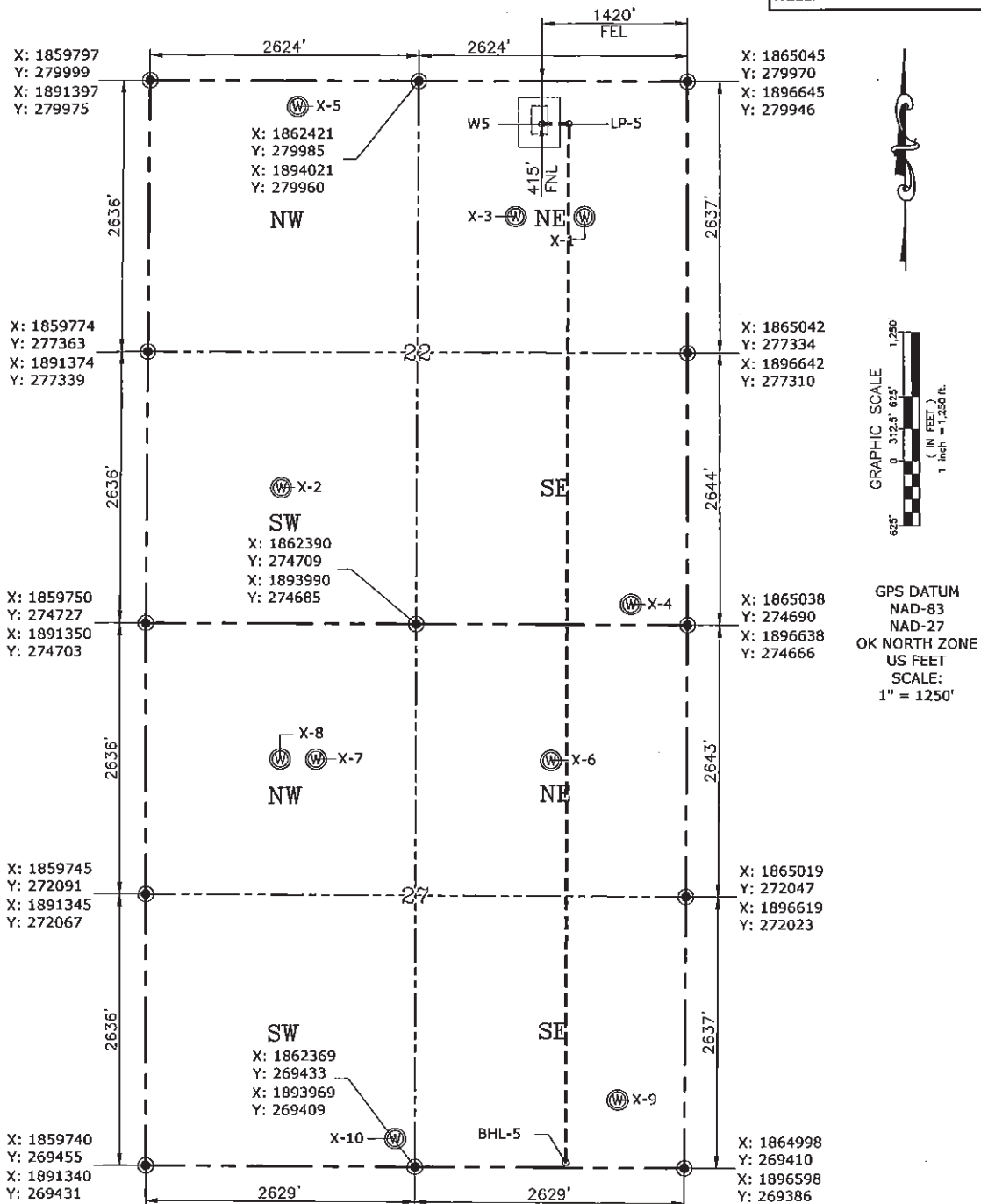
BLAINE

County Oklahoma

415' FNL-1420' FEL Section 22 Township 15N Range 11W I.M.

CONTINENTAL
RESOURCES, INC.
(OPERATOR)

WELL: HOMSEY 5-22-27XHM



REV. 2: 4-24-18

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 PLS 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.

CERTIFICATE:

I, RANDALL J. BILYEU an Oklahoma Licensed Land Surveyor and an authorized agent of Petro Land Services South, LLC, do hereby certify to the information shown herein.

*Randall J. Bilyeu*

Oklahoma PLS No.1196 DATE

Date Staked: 04-08-18
Date Drawn: 04-08-18