

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

API NUMBER: 051 24632

Approval Date: 05/13/2019
Expiration Date: 11/13/2020

Horizontal Hole Oil & Gas
Multi Unit

PERMIT TO DRILL

WELL LOCATION: Sec: 13 Twp: 7N Rge: 6W County: GRADY
SPOT LOCATION: NW SE SW NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 2264 1756

Lease Name: HEALEY Well No: 5-13-12XHW Well will be 1756 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

JEREMY & ROSALIND RENEE HOWE
2177 COUNTY STREET 2920
CHICKASHA OK 73018

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

| Name | Depth | Name | Depth |
|--------------------|-------|------|-------|
| 1 MISSISSIPPI LIME | 12105 | 6 | |
| 2 WOODFORD | 12362 | 7 | |
| 3 | | 8 | |
| 4 | | 9 | |
| 5 | | 10 | |

Spacing Orders: 567315 Location Exception Orders: Increased Density Orders: 694614
582004 694827
163257

Pending CD Numbers: 201900943
201900944

Special Orders:

Total Depth: 19702 Ground Elevation: 1175 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: Yes

PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 3000 Average: 2000

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: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: CHICKASHA

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 19-36618
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 not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: CHICKASHA

HORIZONTAL HOLE 1

Sec 12 Twp 7N Rge 6W County GRADY

Spot Location of End Point: N2 NE NW NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 1650

Depth of Deviation: 11886

Radius of Turn: 495

Direction: 5

Total Length: 7038

Measured Total Depth: 19702

True Vertical Depth: 12362

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

Notes:

Category

Description

DEEP SURFACE CASING

5/9/2019 - 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

5/9/2019 - 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 - 694614

5/10/2019 - GB1 - 12-7N-6W
X567315 WDFD
4 WELLS
CONTINENTAL RESOURCES INC
4/12/2019

INCREASED DENSITY - 694827

5/10/2019 - GB1 - 13-7N-6W
X582004 WDFD
4 WELLS
CONTINENTAL RESOURCES INC
4/17/2019

This permit does not address the right of entry or settlement of surface damages.
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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 |
|------------------------|--|
| MEMO | 5/9/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT |
| PENDING CD - 201900943 | 5/10/2019 - GB1 - (I.O.) 12 & 13-7N-6W X163257 MSSLM 12 & 13-7N-6W X582004 WDFD 13-7N-6W X567315 WDFD 12-7N-6W X165:10-3-28(C)(2)(B) WDFD MAY BE CLOSER THAN 600' TO WILLIAMS 6-25-24-13XHW COMPL. INT. (13-7N-6W) NCT 1320' FSL, NCT 0' FNL, NCT 660' FEL COMPL. INT. (12-7N-6W) NCT 0' FSL, NCT 150' FNL, NCT 660' FEL CONTINENTAL RESOURCES INC REC. 3/5/2019 (P. PORTER) |
| PENDING CD - 201900944 | 5/10/2019 - GB1 - (I.O.) 12 & 13-7N-6W EST MULTIUNIT HORIZONTAL WELL X163257 MSSLM 12 & 13-7N-6W X582004 WDFD 13-7N-6W X567315 WDFD 12-7N-6W (MSSLM ASSOCIATED COMMON SOURCE OF SUPPLY TO WDFD) 33% 13-7N-6W 67% 12-7N-6W CONTINENTAL RESOURCES INC REC. 3/5/2019 (P. PORTER) |
| SPACING - 163257 | 5/10/2019 - GB1 - (640) 12 & 13-7N-6W EXT OTHERS EXT 151109 MSSLM, OTHERS |
| SPACING - 567315 | 5/10/2019 - GB1 - (640) 12-7N-6W EST WDFD, OTHERS |
| SPACING - 582004 | 5/10/2019 - GB1 - (640) 13-7N-6W EST OTHER EXT 568015/202656 WDFD, OTHERS |

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

EXHIBIT: A (1 of 2)
 SHEET: 8.5x14
 SHL: 13-7N-6W
 BHL-5 12-7N-6W



COVER SHEET

CONTINENTAL RESOURCES, INC.

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

Section 13 Township 7N Range 6W I.M. Well: HEALEY 5-13-12XHW
 County GRADY State OK Well: --
 Operator CONTINENTAL RESOURCES, INC.

| NAD-83 | | | | | | | | |
|--------|----------------------|----------|---------|-----------------------------------|-------------------------|--|------------------|----------|
| POINT | WELL NAME | NORTHING | EASTING | LATITUDE LONGITUDE | LATITUDE LONGITUDE | EXISTING ELEVATION | DESIGN ELEVATION | |
| WS | HEALEY 5-13-12XHW | 638265 | 2033708 | 35° 04' 53.27" -97° 46' 55.41" | 35.081463 -97.782057 | 2264' FNL / 1756' FEL (NE/4 SEC 13) | 1172.77' | 1175.27' |
| LP-5 | LANDING POINT | 638265 | 2033813 | 35° 04' 53.26" -97° 46' 54.13" | 35.081462 -97.781704 | 2264' FNL / 1650' FEL (NE/4 SEC 13) | -- | -- |
| BHL-5 | BOTTOM HOLE LOCATION | 643760 | 2033793 | 35° 06' 07.39" -97° 46' 54.18" | 35.102054 -97.781718 | 50' FNL / 1650' FEL (NE/4 SEC 12) | -- | -- |
| X-1 | MCCALLA #1-12 | 639848 | 2032610 | 35° 05' 28.72" -97° 47' 08.52" | 35.091312 -97.785701 | 12-7N-6W: TD: UNKNOWN 1,320' FSL / 2,450' FWL | -- | -- |
| X-2 | HEALEY #1-12H | 638727 | 2032474 | 35° 05' 17.65" -97° 47' 10.18" | 35.088235 -97.786162 | 12-7N-6W: TD: 16,722' 200' FSL / 2,310' FWL | -- | -- |
| X-3 | SS MCCALLA #1-12HS | 638805 | 2030689 | 35° 05' 18.45" -97° 47' 31.67" | 35.088458 -97.792129 | 12-7N-6W: TD: 16,931' 280' FSL / 525' FWL | -- | -- |
| X-4 | NEWKIRK #1-13 | 637204 | 2032808 | 35° 05' 02.57" -97° 47' 08.21" | 35.084048 -97.785057 | 13-7N-6W: TD: 7,525' 1,324' FNL / 2,640' FWL | -- | -- |
| X-5 | MCCALLA #1 | 637672 | 2031867 | 35° 05' 07.22" -97° 47' 17.52" | 35.085339 -97.788200 | 13-7N-6W: TD: 12,925' 855' FNL / 1,700' FWL | -- | -- |
| X-6 | BIRT #1-13H | 633488 | 2030561 | 35° 04' 25.86" -97° 47' 33.34" | 35.073851 -97.792593 | 13-7N-6W: TD: 16,140' 245' FSL / 385' FWL | -- | -- |
| X-7 | BIRT #2-13-12XHS | 633584 | 2031816 | 35° 04' 26.79" -97° 47' 18.24" | 35.074109 -97.786399 | 13-7N-6W: TD: 22,370' 340' FSL / 1,640' FWL | -- | -- |

| NAD-27 | | | | | | | | |
|--------|----------------------|----------|---------|-----------------------------------|-------------------------|--|------------------|----------|
| POINT | WELL NAME | NORTHING | EASTING | LATITUDE LONGITUDE | LATITUDE LONGITUDE | EXISTING ELEVATION | DESIGN ELEVATION | |
| WS | HEALEY 5-13-12XHW | 638223 | 2065304 | 35° 04' 53.03" -97° 46' 54.26" | 35.081397 -97.781739 | 2264' FNL / 1756' FEL (NE/4 SEC 13) | 1172.77' | 1175.27' |
| LP-5 | LANDING POINT | 638223 | 2065410 | 35° 04' 53.03" -97° 46' 52.99" | 35.081396 -97.781385 | 2264' FNL / 1650' FEL (NE/4 SEC 13) | -- | -- |
| BHL-5 | BOTTOM HOLE LOCATION | 643718 | 2065390 | 35° 06' 07.16" -97° 46' 53.04" | 35.101988 -97.781399 | 50' FNL / 1650' FEL (NE/4 SEC 12) | -- | -- |
| X-1 | MCCALLA #1-12 | 639805 | 2064207 | 35° 05' 28.49" -97° 47' 07.37" | 35.091246 -97.785382 | 12-7N-6W: TD: UNKNOWN 1,320' FSL / 2,450' FWL | -- | -- |
| X-2 | HEALEY #1-12H | 638685 | 2064071 | 35° 05' 17.41" -97° 47' 09.04" | 35.088169 -97.785844 | 12-7N-6W: TD: 16,722' 200' FSL / 2,310' FWL | -- | -- |
| X-3 | SS MCCALLA #1-12HS | 638763 | 2062286 | 35° 05' 18.21" -97° 47' 30.52" | 35.088392 -97.791810 | 12-7N-6W: TD: 16,931' 280' FSL / 525' FWL | -- | -- |
| X-4 | NEWKIRK #1-13 | 637162 | 2064405 | 35° 05' 02.33" -97° 47' 05.06" | 35.083982 -97.784739 | 13-7N-6W: TD: 7,525' 1,324' FNL / 2,640' FWL | -- | -- |
| X-5 | MCCALLA #1 | 637630 | 2063464 | 35° 05' 06.98" -97° 47' 16.37" | 35.085273 -97.787881 | 13-7N-6W: TD: 12,925' 855' FNL / 1,700' FWL | -- | -- |
| X-6 | BIRT #1-13H | 633446 | 2062158 | 35° 04' 25.62" -97° 47' 32.19" | 35.073785 -97.792275 | 13-7N-6W: TD: 16,140' 245' FSL / 385' FWL | -- | -- |
| X-7 | BIRT #2-13-12XHS | 633542 | 2063413 | 35° 04' 26.55" -97° 47' 17.09" | 35.074043 -97.788081 | 13-7N-6W: TD: 22,370' 340' FSL / 1,640' FWL | -- | -- |

Certificate of Authorization No. 7318

Date Staked: **--19
 Date Drawn: 4-16-19



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

| REVISIONS | | | | |
|-----------|---------|-----|---------------------|------------------------------------|
| No. | DATE | BY | DESCRIPTION | COMMENTS |
| 00 | 4-16-19 | HGD | ISSUED FOR APPROVAL | -- |
| 01 | 4-26-19 | HGD | REV'D SHL | REV'D EXHIBIT A1-2, B, F, G, H & I |
| | | | | |

EXHIBIT: A (2 of 2)
 SHEET: 8.5x14
 SHL: 13-7N-6W
 BHL-5: 12-7N-6W

PETRO LAND SERVICES SOUTH, LLC

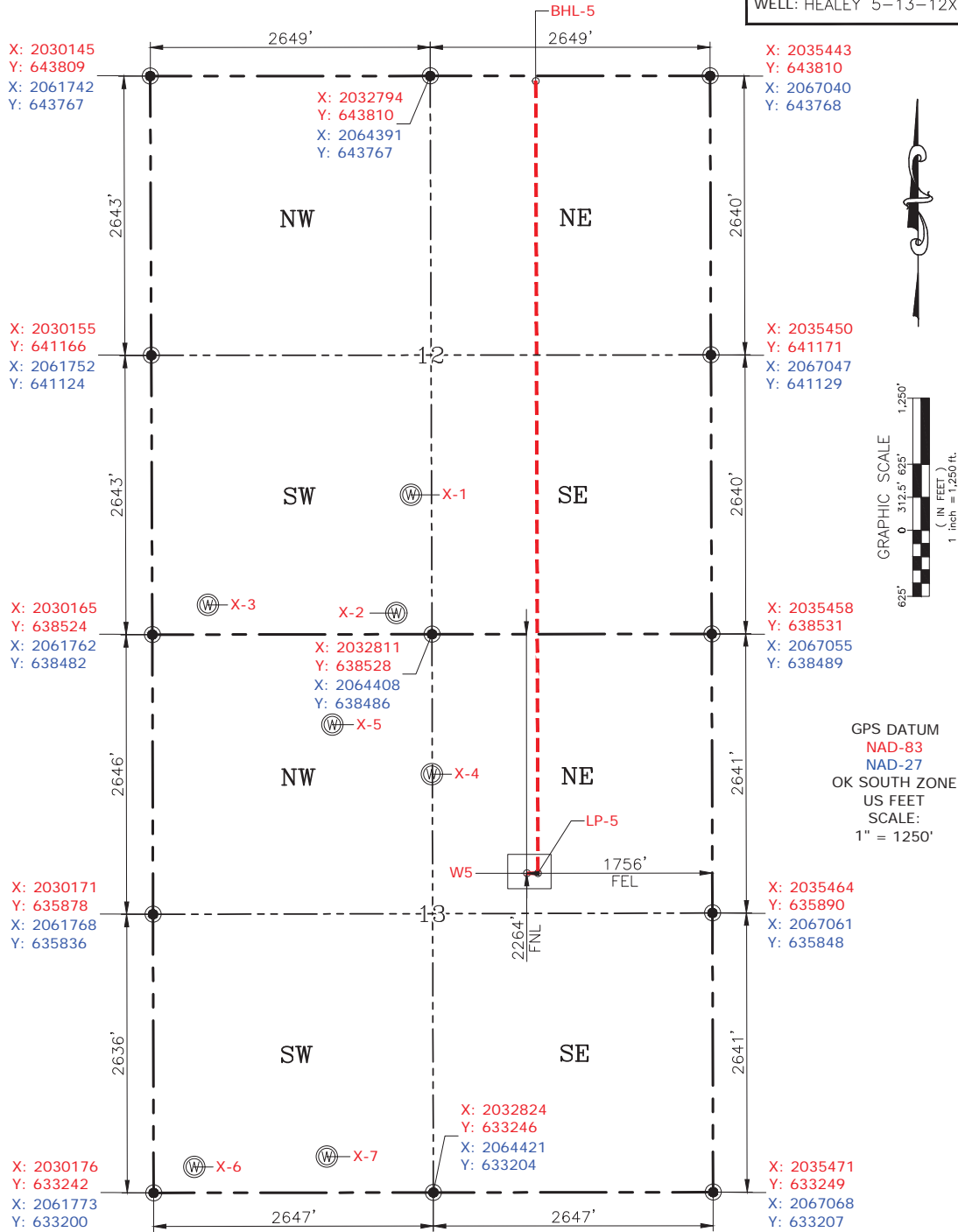
10400 VINEYARD BLVD, SUITE C, OKLA. CITY, OKLA. 73120 * OFFICE (405) 212-3108
 Certificate of Authorization No. 7318



CONTINENTAL
 RESOURCES, INC
 (OPERATOR)

GRADY _____ County Oklahoma
 2264' FNL-1756' FEL Section 13 Township 7N Range 6W I.M.

WELL: HEALEY 5-13-12XHW



GPS DATUM
 NAD-83
 NAD-27
 OK SOUTH ZONE
 US FEET
 SCALE:
 1" = 1250'

CURRENT REV.: 1
 Date Drawn: 4-16-19

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