

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

API NUMBER: 051 24710

Approval Date: 09/05/2019

Expiration Date: 03/05/2021

Horizontal Hole
Multi Unit

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 24 Twp: 6N Rge: 5W

County: GRADY

SPOT LOCATION: ☐ SE ☐ NW ☐ SW ☐ NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 1870 2000

Lease Name: COOLEY

Well No: 4-24-25-36XHW

Well will be 1870 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

LANNIS E. SUTTON TRUST
PO BOX 82861
OKLAHOMA CITY OK 73148

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

| | Name | Depth | Name | Depth |
|---|---------------|-------|------|-------|
| 1 | MISSISSIPPIAN | 11448 | 6 | |
| 2 | WOODFORD | 11728 | 7 | |
| 3 | | | 8 | |
| 4 | | | 9 | |
| 5 | | | 10 | |

Spacing Orders: 147146
190352
167964
170489
607356
623417

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201904151
201904152
201904154
201904155
201904153

Special Orders:

Total Depth: 25443

Ground Elevation: 1168

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 260

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 19-36910

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 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 5000 Average: 3000

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 BED AQUIFER

Pit Location Formation: DUNCAN

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 BED AQUIFER

Pit Location Formation: DUNCAN

HORIZONTAL HOLE 1

Sec 36 Twp 6N Rge 5W County GRADY

Spot Location of End Point: S2 S2 S2 S2

Feet From: SOUTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 2640

Depth of Deviation: 11251

Radius of Turn: 467

Direction: 185

Total Length: 13459

Measured Total Depth: 25443

True Vertical Depth: 12197

End Point Location from Lease,

Unit, or Property Line: 50

Notes:

Category

Description

DEEP SURFACE CASING

8/21/2019 - 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

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.

051 24710 COOLEY 4-24-25-36XHW

| Category | Description |
|------------------------|---|
| HYDRAULIC FRACTURING | <p>8/21/2019 - G71 - OCC 165:10-3-10 REQUIRES:</p> <p>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;</p> <p>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,</p> <p>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</p> |
| MEMO | 8/21/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT |
| PENDING CD - 201904151 | <p>8/23/2019 - GC2 - (I.O.) 24, 25 & 36-6N-5W EST MULTIUNIT HORIZONTAL WELL X147146 MSSP 24-6N-5W X190352 WDFD 24-6N-5W X167964/170489 MSSP 25-6N-5W X607356 WDFD 25-6N-5W X623417 MSSP, WDFD 36-6N-5W (MSSP ASSOCIATED COMMON SOURCE OF SUPPLY TO WDFD) 33.33% 24-6N-5W 33.34% 25-6N-5W 33.33% 36-6N-5W CONTINENTAL RESOURCES, INC. REC 9-3-2019 (THOMAS)</p> |
| PENDING CD - 201904152 | <p>8/23/2019 - GC2 - (I.O.) 24, 25, & 36-6N-5W X147146 MSSP 24-6N-5W X190352 WDFD 24-6N-5W X167964/170489 MSSP 25-6N-5W X607356 WDFD 25-6N-5W X623417 MSSP, WDFD 36-6N-5W COMPL. INT. (24N-5W) NCT 150' FNL, NCT 0' FSL, NCT 2,300' FEL+++ COMPL. INT. (25-6N-5W) NCT 0' FNL, NCT 0' FSL, NCT 2,300' FEL COMPL. INT. (36-6N-5W) NCT 0' FNL, NCT 150' FSL, NCT 2,300' FEL CONTINENTAL RESOURCES, INC. REC 9-3-2019 (THOMAS)</p> |
| PENDING CD - 201904153 | <p>+++ S/B 24-6N-5W; WILL BE CORRECTED AT FINAL HEARING PER ATTORNEY FOR OPERATOR</p> <p>8/23/2019 - GC2 - 24-6N-5W X190352 WDFD 4 WELLS NO OP. NAMED REC 9/3/2019 (THOMAS)</p> |
| PENDING CD - 201904154 | <p>8/23/2019 - GC2 - 25-6N-5W X607356 WDFD 4 WELLS NO OP. NAMED REC 9/3/2019 (THOMAS)</p> |
| PENDING CD - 201904155 | <p>8/23/2019 - GC2 - 36-6N-5W X623417 WDFD 3 WELLS NO OP. NAMED REC 9/3/2019 (THOMAS)</p> |
| SPACING - 147146 | <p>8/23/2019 - GC2 - (640) 24-6N-5W EST MSSP, OTHERS EXT OTHERS</p> |
| SPACING - 167964 | <p>8/23/2019 - GC2 - (640) 25-6N-5W EXT OTHER EXT 147146/153801 MSSP, OTHERS</p> |
| SPACING - 170489 | <p>8/23/2019 - GC2 - NPT PARAGRAPH 1 OF 167964 TO REFLECT 640 DRILLING AND SPACING UNITS.</p> |

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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 |
|------------------|---|
| SPACING - 190352 | 8/23/2019 - GC2 - (640) 24-6N-5W EST WDFD, OTHERS |
| SPACING - 607356 | 8/23/2019 - GC2 - (640) 25-6N-5W EXT 386234/190352 WDFD, OTHERS EST OTHERS |
| SPACING - 623417 | 8/23/2019 - GC2 - (640) 36-6N-5W EXT 607356/604782/380589 MSSP, WDFD, OTHERS VAC OTHERS |

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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: 8.5x11
 SHL: 24-6N-5W
 BHL-4 36-6N-5W



COVER SHEET

CONTINENTAL RESOURCES, INC.

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

Section 24 Township 6N Range 5W I.M.

Well: COOLEY 4-24-25-36XHW

County GRADY State OK

Well: --

Operator CONTINENTAL RESOURCES, INC.

NAD-83

| POINT | WELL NAME | NORTHING | EASTING | LATITUDE LONGITUDE | LATITUDE LONGITUDE | | EXISTING ELEVATION | DESIGN ELEVATION |
|-------|--------------------------|----------|---------|-----------------------------------|-------------------------|--|-----------------------|---------------------|
| W4 | COOLEY 4-24-25-36XHW | 599736 | 2065201 | 34° 58' 51.12" -97° 40' 37.88" | 34.980867 -97.677189 | 1870' FNL / 2000' FEL (NE/4 SEC 24) | 1165.45' | 1167.59' |
| LP-4 | LANDING POINT | 599732 | 2064561 | 34° 58' 51.11" -97° 40' 45.57" | 34.980864 -97.679326 | 1870' FNL / 2640' FEL (NE/4 SEC 24) | -- | -- |
| BHL-4 | BOTTOM HOLE LOCATION | 585780 | 2064585 | 34° 56' 33.11" -97° 40' 45.82" | 34.942529 -97.679394 | 50' FSL / 2640' FEL (SE/4 SEC 36) | -- | -- |
| X-1 | COPELAND #1-36H | 585941 | 2062724 | 34° 56' 34.75" -97° 41' 08.16" | 34.942987 -97.685600 | 36-6N-5W: TD: 17,395' 215' FSL / 790' FWL | -- | -- |
| X-2 | DOGFISH #1-31-30-MXH | 586192 | 2066913 | 34° 56' 37.10" -97° 40' 17.83" | 34.943640 -97.671621 | 36-6N-5W: TD: 13,686' 456' FSL / 311' FEL | -- | -- |
| X-3 | DOGFISH #1-31-30-MXHR | 586192 | 2066884 | 34° 56' 37.10" -97° 40' 18.18" | 34.943640 -97.671717 | 36-6N-5W: TD: 21,930' 456' FSL / 340' FEL | -- | -- |
| X-4 | BRIDWELL #1-25 | 594993 | 2065887 | 34° 58' 04.19" -97° 40' 29.81" | 34.967830 -97.674948 | 25-6N-5W: TD: 14,095' 1,326' FNL / 1,320' FEL | -- | -- |
| X-5 | BRIDWELL #1-25H | 591245 | 2065365 | 34° 57' 27.13" -97° 40' 36.23" | 34.957537 -97.676731 | 25-6N-5W: TD: 16,575' 220' FSL / 1,850' FEL | -- | -- |
| X-6 | COOLEY #1-24H | 596083 | 2065295 | 34° 58' 14.99" -97° 40' 36.88" | 34.970830 -97.676912 | 25-6N-5W: TD: 16,920' 233' FNL / 1,910' FEL | -- | -- |

NAD-27

| POINT | WELL NAME | NORTHING | EASTING | LATITUDE LONGITUDE | LATITUDE LONGITUDE | | EXISTING ELEVATION | DESIGN ELEVATION |
|-------|--------------------------|----------|---------|-----------------------------------|-------------------------|--|-----------------------|---------------------|
| W4 | COOLEY 4-24-25-36XHW | 599694 | 2096797 | 34° 58' 50.87" -97° 40' 36.75" | 34.980798 -97.676874 | 1870' FNL / 2000' FEL (NE/4 SEC 24) | 1165.45' | 1167.59' |
| LP-4 | LANDING POINT | 599690 | 2096157 | 34° 58' 50.86" -97° 40' 44.44" | 34.980795 -97.679012 | 1870' FNL / 2640' FEL (NE/4 SEC 24) | -- | -- |
| BHL-4 | BOTTOM HOLE LOCATION | 585738 | 2096181 | 34° 56' 32.85" -97° 40' 44.69" | 34.942459 -97.679080 | 50' FSL / 2640' FEL (SE/4 SEC 36) | -- | -- |
| X-1 | COPELAND #1-36H | 585899 | 2094320 | 34° 56' 34.50" -97° 41' 07.03" | 34.942917 -97.685286 | 36-6N-5W: TD: 17,395' 215' FSL / 790' FWL | -- | -- |
| X-2 | DOGFISH #1-31-30-MXH | 586150 | 2098509 | 34° 56' 36.85" -97° 40' 16.71" | 34.943569 -97.671307 | 36-6N-5W: TD: 13,686' 456' FSL / 311' FEL | -- | -- |
| X-3 | DOGFISH #1-31-30-MXHR | 586150 | 2098480 | 34° 56' 36.85" -97° 40' 17.05" | 34.943570 -97.671404 | 36-6N-5W: TD: 21,930' 456' FSL / 340' FEL | -- | -- |
| X-4 | BRIDWELL #1-25 | 594951 | 2097484 | 34° 58' 03.94" -97° 40' 28.68" | 34.967761 -97.674634 | 25-6N-5W: TD: 14,095' 1,326' FNL / 1,320' FEL | -- | -- |
| X-5 | BRIDWELL #1-25H | 591203 | 2096961 | 34° 57' 26.88" -97° 40' 35.10" | 34.957468 -97.676417 | 25-6N-5W: TD: 16,575' 220' FSL / 1,850' FEL | -- | -- |
| X-6 | COOLEY #1-24H | 596041 | 2096892 | 34° 58' 14.74" -97° 40' 35.75" | 34.970761 -97.676598 | 25-6N-5W: TD: 16,920' 233' FNL / 1,910' FEL | -- | -- |

REVISIONS

| No. | DATE | STAKED | BY | DESCRIPTION | COMMENTS |
|-----|---------|---------|-----|-----------------------|-----------------------|
| 00 | 8-15-19 | **--19 | HDG | ISSUED FOR APPROVAL | -- |
| 01 | 8-19-19 | 8-16-19 | HDG | REV'D ACCESS LOCATION | REV'D EXHIBIT F,G & A |
| | | | | | |
| | | | | | |

Certificate of Authorization No. 7318



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

EXHIBIT: A (2 of 2)
SHEET: 8.5x14
SHL: 24-6N-5W
BHL-4 36-6N-5W

PETRO LAND SERVICES SOUTH, LLC

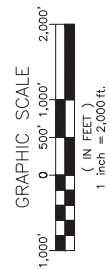
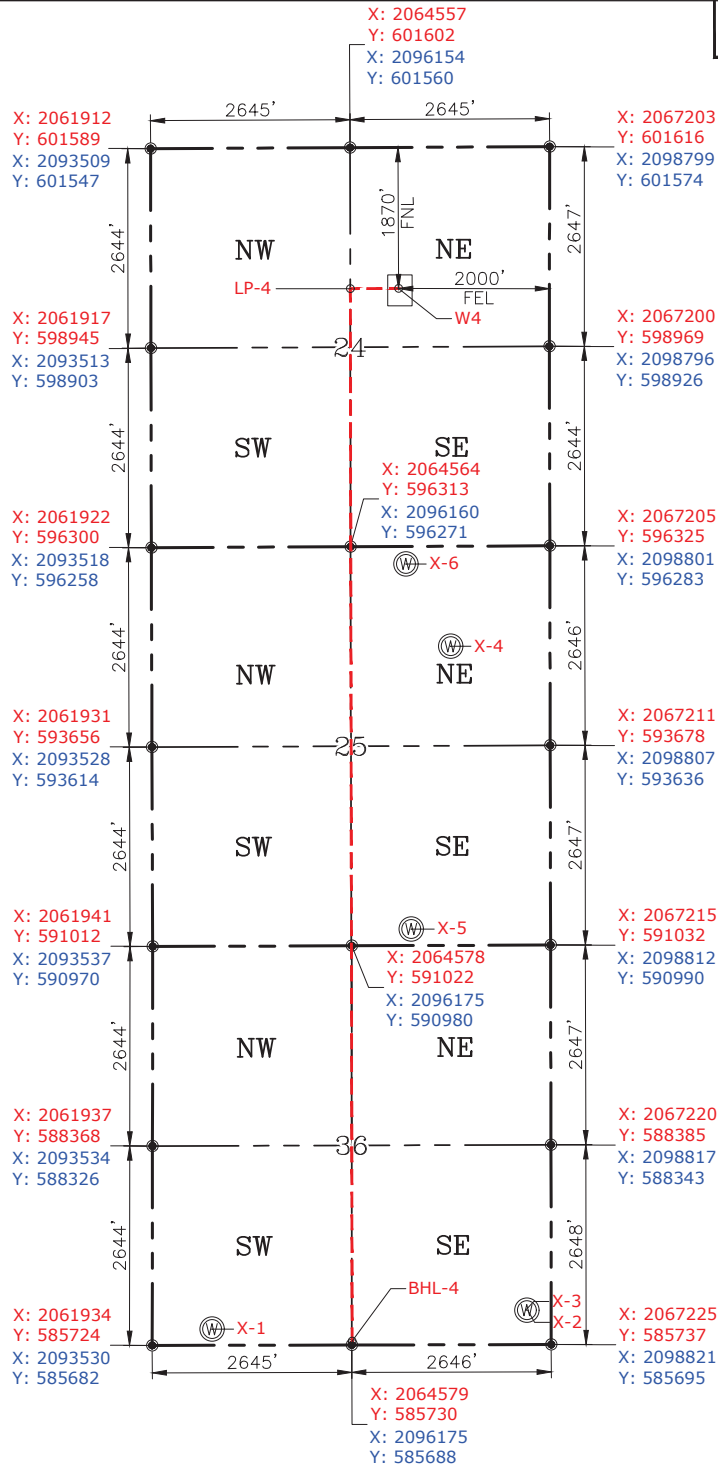
10400 VINEYARD BLVD, SUITE C, OKLA. CITY, OKLA. 73120 * OFFICE (405) 212-3108
Certificate of Authorization No. 7318



CONTINENTAL
RESOURCES, INC.
(OPERATOR)

GRADY County Oklahoma
1870' FNL-2000' FEL Section 24 Township 6N Range 5W I.M.

WELL: COOLEY
4-24-25-36XHW



GPS DATUM
NAD-83
NAD-27
OK SOUTH ZONE
US FEET
SCALE:
1" = 2000'

CURRENT REV.: 1

Date Drawn: 8-19-19

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