

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

API NUMBER: 049 25258

Approval Date: 02/05/2019

Expiration Date: 08/05/2020

Horizontal Hole
Oil & Gas
Multi Unit

PERMIT TO DRILL

WELL LOCATION: Sec: 20 Twp: 3N Rge: 4W

County: GARVIN

SPOT LOCATION: ☐ NW ☐ NW ☐ SE ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 1119 1586

Lease Name: HINES

Well No: 5-20-17XHW

Well will be 1119 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

ALBERT W. LANG III
P.O. BOX 20766
OKLAHOMA CITY OK 73156

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

| | Name | Depth | Name | Depth |
|---|---------------|-------|------|-------|
| 1 | MISSISSIPPIAN | 14107 | 6 | |
| 2 | SYCAMORE | 14185 | 7 | |
| 3 | WOODFORD | 14427 | 8 | |
| 4 | HUNTON | 14672 | 9 | |
| 5 | | | 10 | |

Spacing Orders: 608545
604249
686460

Location Exception Orders: 686461

Increased Density Orders: 684890
684889

Pending CD Numbers:

Special Orders:

Total Depth: 23340

Ground Elevation: 1147

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 370

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

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: 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 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

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

PERMIT NO: 18-35989

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 BED AQUIFER

Pit Location Formation: DUNCAN

HORIZONTAL HOLE 1

Sec 17 Twp 3N Rge 4W County GARVIN

Spot Location of End Point: N2 NE NE NW

Feet From: NORTH 1/4 Section Line: 30

Feet From: WEST 1/4 Section Line: 2310

Depth of Deviation: 14204

Radius of Turn: 477

Direction: 5

Total Length: 8387

Measured Total Depth: 23340

True Vertical Depth: 14972

End Point Location from Lease,
Unit, or Property Line: 30

Notes:

Category

Description

DEEP SURFACE CASING

12/31/2018 - 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

12/31/2018 - 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 - 684889

1/30/2019 - G75 - 17-3N-4W
X608545 WDFD
7 WELLS
CONTINENTAL RESOURCES, INC.
10-12-2018

INCREASED DENSITY - 684890

1/30/2019 - G75 - 20-3N-4W
X604249 WDFD
7 WELLS
CONTINENTAL RESOURCES, INC.
10-12-2018

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.

049 25258 HINES 5-20-17XHW

| Category | Description |
|-----------------------------|--|
| LOCATION EXCEPTION - 686461 | 1/30/2019 - G75 - (I.O.) 20 & 17-3N-4W X604249 SCMR, WDFD, HNTN 20-3N-4W X608545 MSSP, WDFD, HNTN 17-3N-4W X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO EXISTING/PROPOSED WELLS COMPL. INT. (20-3N-4W) NCT 500' FSL, NCT 0' FNL, NCT 1320' FEL OR FWL COMPL. INT. (17-3N-4W) NCT 0' FSL, NCT 150' FNL, NCT 1320' FEL OR FWL CONTINENTAL RESOURCES, INC. 11-9-2018 |
| MEMO | 12/31/2018 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT |
| SPACING - 604249 | 1/30/2019 - G75 - (640) 20-3N-4W EXT OTHER EST OTHERS EXT 592945 SCMR, WDFD, HNTN, OTHERS |
| SPACING - 608545 | 1/30/2019 - G75 - (640) 17-3N-4W EXT OTHERS EXT 213539 HNTN, OTHER EXT 590255 MSSP, WDFD, OTHERS |
| SPACING - 686460 | 1/30/2019 - G75 - (I.O.) 20 & 17-3N-4W EST MULTIUNIT HORIZONTAL WELL X604249 SCMR, WDFD, HNTN 20-3N-4W X608545 MSSP, WDFD, HNTN 17-3N-4W (MSSP, SCMR, HNTN ADJACENT COMMON SOURCES OF SUPPLY TO WDFD) 45% 20-3N-4W 55% 17-3N-4W CONTINENTAL RESOURCES, INC. 11-9-2018 |

EXHIBIT: A (1 of 4)
SHEET: 8.5x14
SHL: 20-3N-4W
BHL-4 32-3N-4W
BHL-5 17-3N-4W



API 049-25258

COVER SHEET

CONTINENTAL RESOURCES, INC.

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

Section 20 Township 3N Range 4W I.M.

Well: LANG 4-20-29-32XHW

County GARVIN State OK

Well: HINES 5-20-17XHW

Operator CONTINENTAL RESOURCES, INC.

| NAD-83 | | | | | | | | |
|--------|-----------------------------|----------|---------|-----------------------------------|-------------------------|---|-----------------------|---------------------|
| POINT | WELL NAME | NORTHING | EASTING | LATITUDE LONGITUDE | LATITUDE LONGITUDE | | EXISTING ELEVATION | DESIGN ELEVATION |
| W4 | LANG 4-20-29-32XHW | 502452 | 2074969 | 34° 42' 48.52" -97° 38' 44.60" | 34.713478 -97.645721 | 1119' FSL / 1556' FWL (SW/4 SEC 20) | 1147.45' | N/A |
| LP-4 | LANDING POINT | 502454 | 2075722 | 34° 42' 48.52" -97° 38' 35.57" | 34.713478 -97.643213 | 1119' FSL / 2310' FWL (SW/4 SEC 20) | -- | -- |
| BHL-4 | BOTTOM HOLE LOCATION | 495303 | 2075766 | 34° 41' 37.78" -97° 38' 35.34" | 34.693827 -97.643151 | 750' FNL / 2310' FWL (NW/4 SEC 32) | -- | -- |
| W5 | HINES 5-20-17XHW | 502452 | 2074999 | 34° 42' 48.52" -97° 38' 44.24" | 34.713478 -97.645621 | 1119' FSL / 1586' FWL (SW/4 SEC 20) | 1147.37' | N/A |
| LP-5 | LANDING POINT | 502454 | 2075722 | 34° 42' 48.52" -97° 38' 35.57" | 34.713478 -97.643213 | 1119' FSL / 2310' FWL (SW/4 SEC 20) | -- | -- |
| BHL-5 | BOTTOM HOLE LOCATION | 511878 | 2075682 | 34° 44' 21.74" -97° 38' 35.65" | 34.739371 -97.643237 | 30' FNL / 2310' FWL (NW/4 SEC 17) | -- | -- |
| X-1 | CUNNINGHAM RANCH #1-17 | 509878 | 2076690 | 34° 44' 01.92" -97° 38' 23.66" | 34.733867 -97.639906 | 17-3N-4W: S4SW4NE4 TD: 12,500' 610' FSL / 660' FWL | -- | -- |
| X-2 | HINES #1-17H | 506790 | 2074855 | 34° 43' 31.44" -97° 38' 45.78" | 34.725400 -97.646050 | 17-3N-4W:SW4SW4SE4SW4 TD: 19,332' 170' FSL / 1,450' FWL | -- | -- |
| X-3 | OMER #1-17H | 506912 | 2073804 | 34° 43' 32.68" -97° 38' 58.37" | 34.725744 -97.649546 | 17-3N-4W:SE4SW4SW4SW4 TD: 17,871' 295' FSL / 400' FWL | -- | -- |
| X-4 | PURDY HART SU NE #ZZ-21W | 511252 | 2078004 | 34° 44' 15.46" -97° 38' 07.86" | 34.737628 -97.635516 | 17-3N-4W:NE4NE4 TD: 9,260' 1,980' FSL 1/4 Sec Line / 1,980' FWL 1/4 Sec Line | -- | -- |
| X-5 | LANG #1-20H | 501624 | 2076864 | 34° 42' 40.26" -97° 38' 21.93" | 34.711184 -97.639426 | 20-3N-4W:SW4SE4SW4SE4 TD: 19,140' 285' FSL / 1,850' FEL | -- | -- |
| X-6 | WARDEN #1-20H | 501599 | 2073722 | 34° 42' 40.13" -97° 38' 59.56" | 34.711147 -97.649879 | 20-3N-4W:SW4SW4SW4SW4 TD: 18,600' 270' FSL / 305' FWL | -- | -- |
| X-7 | MARIE GREGORY #1-29H | 501599 | 2073767 | 34° 42' 40.13" -97° 38' 59.02" | 34.711147 -97.649729 | 20-3N-4W:SE4SW4SW4SW4 TD: 18,477' 270' FSL / 350' FWL | -- | -- |
| X-8 | OMER #2-20-17XHS | 503632 | 2078207 | 34° 43' 00.08" -97° 38' 05.75" | 34.716689 -97.634930 | 20-3N-4W:SW4NE4NE4SE4 TD: 19,035' 2,289' FSL / 491' FEL | -- | -- |
| X-9 | OMER #6-20-17XHS | 503544 | 2076566 | 34° 42' 59.27" -97° 38' 25.42" | 34.716463 -97.640393 | 20-3N-4W:SE4NW4NW4SE4 TD: 18,868' 2,206' FSL / 2,133' FEL | -- | -- |
| X-10 | OMER #4-20-17XHS | 502449 | 2074739 | 34° 42' 48.50" -97° 38' 47.35" | 34.713473 -97.646486 | 20-3N-4W:NN4NW4SE4SW4 TD: 18,913' 1,116' FSL / 1,327' FWL | -- | -- |
| X-11 | OMER #3-20-17XHS | 503632 | 2078237 | 34° 43' 00.08" -97° 38' 05.39" | 34.716689 -97.634830 | 20-3N-4W:SW4NE4NE4SE4 TD: 19,035' 2,289' FSL / 461' FEL | -- | -- |
| X-12 | OMER #5-20-29XHS | 502449 | 2074769 | 34° 42' 48.50" -97° 38' 46.99" | 34.713472 -97.646386 | 20-3N-4W:NN4NW4SE4SW4 TD: 18,913' 1,116' FSL / 1,357' FWL | -- | -- |
| X-13 | OMER #7-20-29XHS | 503547 | 2076596 | 34° 42' 59.30" -97° 38' 25.06" | 34.716472 -97.640293 | 20-3N-4W:SE4NW4NW4SE4 TD: 18,868' 2,209' FSL / 2,103' FEL | -- | -- |
| X-14 | BRAY #1 | 497374 | 2077414 | 34° 41' 58.21" -97° 38' 15.53" | 34.699502 -97.637647 | 29-3N-4W:SE4 TD: 12,300' 1,320' FSL / 1,320' FWL 1/4 Sec Line | -- | -- |
| X-15 | VESTA MARIE #1-29H | 500942 | 2074758 | 34° 42' 33.60" -97° 38' 47.19" | 34.709332 -97.646440 | 29-3N-4W:SW4NW4NE4NW4 TD: 19,050' 390' FNL / 1,340' FWL | -- | -- |
| X-16 | COLBERT #1-32H | 490986 | 2074258 | 34° 40' 55.13" -97° 38' 53.59" | 34.681980 -97.648220 | 32-3N-4W:SW4SE4SW4SW4 TD: 19,815' 230' FSL / 790' FWL | -- | -- |

Certificate of Authorization No. 7318

Date Staked: **--**--18
Date Drawn: 10-24-18



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

REVISIONS

| No. | DATE | BY | DESCRIPTION | COMMENTS |
|-----|----------|-----|---------------------|----------|
| 00 | 10-24-18 | HOG | ISSUED FOR APPROVAL | -- |
| | | | | |
| | | | | |
| | | | | |

EXHIBIT: A (2 of 4)
SHEET: 8.5x14
SHL: 20-3N-4W
BHL-4 32-3N-4W
BHL-5 17-3N-4W



COVER SHEET CONTINUED...

CONTINENTAL RESOURCES, INC.

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

Section 20 Township 3N Range 4W I.M. Well: LANG 4-20-29-32XHW
County GARVIN State OK Well: HINES 5-20-17XHW
Operator CONTINENTAL RESOURCES, INC.

| NAD-27 | | | | | | | | |
|--------|-----------------------------|----------|---------|-----------------------------------|-------------------------|--|-----------------------|---------------------|
| POINT | WELL NAME | NORTHING | EASTING | LATITUDE LONGITUDE | LATITUDE LONGITUDE | | EXISTING ELEVATION | DESIGN ELEVATION |
| W4 | LANG 4-20-29-32XHW | 502410 | 2106564 | 34° 42' 48.25" -97° 38' 43.48" | 34.713402 -97.645412 | 1119' FSL / 1556' FWL (SW/4 SEC 20) | 1147.45' | N/A |
| LP-4 | LANDING POINT | 502412 | 2107318 | 34° 42' 48.24" -97° 38' 34.45" | 34.713401 -97.642904 | 1119' FSL / 2310' FWL (SW/4 SEC 20) | -- | -- |
| BHL-4 | BOTTOM HOLE LOCATION | 495261 | 2107362 | 34° 41' 37.50" -97° 38' 34.23" | 34.693750 -97.642842 | 750' FNL / 2310' FWL (NW/4 SEC 32) | -- | -- |
| W5 | HINES 5-20-17XHW | 502410 | 2106594 | 34° 42' 48.25" -97° 38' 43.12" | 34.713401 -97.645312 | 1119' FSL / 1586' FWL (SW/4 SEC 20) | 1147.37' | N/A |
| LP-5 | LANDING POINT | 502412 | 2107318 | 34° 42' 48.24" -97° 38' 34.45" | 34.713401 -97.642904 | 1119' FSL / 2310' FWL (SW/4 SEC 20) | -- | -- |
| BHL-5 | BOTTOM HOLE LOCATION | 511836 | 2107277 | 34° 44' 21.46" -97° 38' 34.54" | 34.739295 -97.642928 | 30' FNL / 2310' FWL (NW/4 SEC 17) | -- | -- |
| X-1 | CUNNINGHAM RANCH #1-17 | 509836 | 2108285 | 34° 44' 01.65" -97° 38' 22.55" | 34.733791 -97.639596 | 17-3N-4W: S4SW4NE4 TD: 12,500' 610' FSL / 660' FWL | -- | -- |
| X-2 | HINES #1-17H | 506748 | 2106450 | 34° 43' 31.17" -97° 38' 44.67" | 34.725324 -97.645741 | 17-3N-4W: S4SW4SE4SW4 TD: 19,332' 170' FSL / 1,450' FWL | -- | -- |
| X-3 | OMER #1-17H | 506870 | 2105399 | 34° 43' 32.40" -97° 38' 57.25" | 34.725668 -97.649236 | 17-3N-4W: S4SW4SE4SW4 TD: 17,871' 295' FSL / 400' FWL | -- | -- |
| X-4 | PURDY HART SU NE #22-21W | 511210 | 2109599 | 34° 44' 15.19" -97° 38' 06.74" | 34.737552 -97.635207 | 17-3N-4W: NE4NE4 TD: 9,260' 1,980' FSL 1/4 Sec Line / 1,980' FWL 1/4 Sec Line | -- | -- |
| X-5 | LANG #1-20H | 501582 | 2108459 | 34° 42' 39.99" -97° 38' 20.82" | 34.711108 -97.639117 | 20-3N-4W: S4SW4SE4SW4 TD: 19,140' 285' FSL / 1,850' FEL | -- | -- |
| X-6 | WARDEN #1-20H | 501557 | 2105318 | 34° 42' 39.85" -97° 38' 58.45" | 34.711070 -97.649570 | 20-3N-4W: S4SW4SW4SW4 TD: 18,600' 270' FSL / 305' FWL | -- | -- |
| X-7 | MARIE GREGORY #1-29H | 501557 | 2105363 | 34° 42' 39.85" -97° 38' 57.91" | 34.711070 -97.649420 | 20-3N-4W: SE4SW4SW4SW4 TD: 18,477' 270' FSL / 350' FWL | -- | -- |
| X-8 | OMER #2-20-17XHS | 503590 | 2109803 | 34° 42' 59.81" -97° 38' 04.64" | 34.716613 -97.634621 | 20-3N-4W: S4NW4NE4SE4 TD: 19,035' 2,289' FSL / 491' FEL | -- | -- |
| X-9 | OMER #6-20-17XHS | 503502 | 2108161 | 34° 42' 58.99" -97° 38' 24.30" | 34.716387 -97.640084 | 20-3N-4W: SE4NW4NW4SE4 TD: 18,868' 2,206' FSL / 2,133' FEL | -- | -- |
| X-10 | OMER #4-20-17XHS | 502407 | 2106335 | 34° 42' 48.23" -97° 38' 46.23" | 34.713397 -97.646176 | 20-3N-4W: NW4NW4SE4SW4 TD: 18,913' 1,116' FSL / 1,327' FWL | -- | -- |
| X-11 | OMER #3-20-17XHS | 503590 | 2109833 | 34° 42' 59.81" -97° 38' 04.28" | 34.716613 -97.634521 | 20-3N-4W: S4NW4NE4SE4 TD: 19,035' 2,289' FSL / 461' FEL | -- | -- |
| X-12 | OMER #5-20-29XHS | 502407 | 2106364 | 34° 42' 48.22" -97° 38' 45.88" | 34.713396 -97.646077 | 20-3N-4W: NW4NW4SE4SW4 TD: 18,913' 1,116' FSL / 1,357' FWL | -- | -- |
| X-13 | OMER #7-20-29XHS | 503505 | 2108191 | 34° 42' 59.02" -97° 38' 23.94" | 34.716395 -97.639984 | 20-3N-4W: SE4NW4NW4SE4 TD: 18,868' 2,209' FSL / 2,103' FEL | -- | -- |
| X-14 | BRAY #1 | 497332 | 2109009 | 34° 41' 57.93" -97° 38' 14.42" | 34.699425 -97.637338 | 29-3N-4W: SE4 TD: 12,300' 1,320' FSL / 1,320' FWL 1/4 Sec Line | -- | -- |
| X-15 | VESTA MARIE #1-29H | 500900 | 2106353 | 34° 42' 33.32" -97° 38' 46.07" | 34.709256 -97.646131 | 29-3N-4W: S4NW4NE4NW4 TD: 19,050' 390' FNL / 1,340' FWL | -- | -- |
| X-16 | COLBERT #1-32H | 490944 | 2105853 | 34° 40' 54.85" -97° 38' 52.48" | 34.681903 -97.647911 | 32-3N-4W: S4SE4SW4SW4 TD: 19,815' 230' FSL / 790' FWL | -- | -- |

