

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

API NUMBER: 011 24244

Approval Date: 10/10/2019

Expiration Date: 04/10/2021

Horizontal Hole
Multi Unit

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 27 Twp: 15N Rge: 12W

County: BLAINE

SPOT LOCATION: ☐ SW ☐ NW ☐ NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 462 2341

Lease Name: HOLSTEIN

Well No: 6-27-34-3XHM

Well will be 462 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

COWAN LIVING TRUST
255606 EAST 880 RD
WATONGA OK 73772

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

	Name	Depth	Name	Depth
1	CHESTER	10721	6	
2	MISSISSIPPI LIME	11985	7	
3	MISS'AN LM	12205	8	
4	MISSISSIPPIAN	12284	9	
5			10	

Spacing Orders: 582847
117120
587453

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201904257
201904256
201904244
201904245
201904248

Special Orders:

Total Depth: 26945

Ground Elevation: 1573

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 80

Deep surface casing has been approved

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: 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 BED AQUIFER

Pit Location Formation: MARLOW

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

PERMIT NO: 19-36966

H. SEE MEMO

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

The duration of this permit is 18 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: MARLOW

HORIZONTAL HOLE 1

Sec 03 Twp 14N Rge 12W County BLAINE

Spot Location of End Point: SE SW SW SE

Feet From: SOUTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 1983

Depth of Deviation: 11543

Radius of Turn: 472

Direction: 175

Total Length: 14661

Measured Total Depth: 26945

True Vertical Depth: 12284

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

Notes:

Category

Description

DEEP SURFACE CASING

9/13/2019 - 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

9/13/2019 - 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

INTERMEDIATE CASING

9/13/2019 - 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

9/13/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201904244

9/16/2019 - GC2 - 27-15N-12W
X582847 MSSP
5 WELLS
NO OP. NAMED
REC. 9-9-2019 (THOMAS)

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

The duration of this permit is 18 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 24244 HOLSTEIN 6-27-34-3XHM

PENDING CD - 201904245	9/16/2019 - GC2 - 34-15N-12W X587453 MSSLM 4 WELLS NO OP. NAMED REC. 10-7-2019 (THOMAS)
PENDING CD - 201904248	9/16/2019 - GC2 - 3-14N-12W X117120 MPLM 4 WELLS NO OP. NAMED REC. 9-9-2019 (THOMAS)
PENDING CD - 201904256	9/23/2019 - GC2 - (I.O.) 27 & 34-15N-12W & 3-14N-12W EST MULTIUNIT HORIZONTAL WELL X582847 MSSP 27-15N-12W X117120 CSTR 34-15N-12W X587453 MSSLM 34-15N-12W X117120 CSTR, MPLM 3-14N-12W (CSTR ASSOCIATED COMMON SOURCE OF SUPPLY TO MSSP/MSSLM/MPLM) 33.33% 27-15N-12W 33.33% 34-15N-12W 33.34% 3-14N-12W CONTINENTAL RESOURCES INC REC. 10-7-2019 (THOMAS)
PENDING CD - 201904257	9/16/2019 - GC2 - (I.O.) 27 & 34-15N-12W & 3-14N-12W X582847 MSSP 27-15N-12W X117120 CSTR 34-15N-12W X587453 MSSLM 34-15N-12W X117120 CSTR, MPLM 3-14N-12W COMPL. INT. (27-15N-12W) NCT 150' FNL, NCT 0' FSL, NCT 990' FEL COMPL. INT. (34-15N-12W) NCT 0' FNL, NCT 0' FSL, NCT 990' FEL COMPL. INT. (3-14N-12W) NCT 0' FNL, NCT 150' FSL, NCT 990' FEL CONTINENTAL RESOURCES INC REC. 9-9-2019 (THOMAS)
SPACING - 117120	9/16/2019 - GC2 - (640) 3-14N-12W & 34-15N-12W EXT OTHERS EXT CSTR, MPLM (VAC 34-15N-12W BY 587453), OTHERS
SPACING - 582847	9/16/2019 - GC2 - (640) 27-15N-12W EXT 427321/579154 MSSP, OTHERS
SPACING - 587453	9/16/2019 - GC2 - (640) 34-15N-12W EXT OTHERS EST MSSLM, OTHERS VAC OTHERS VAC 117120 MPLM

EXHIBIT: A (1 of 3)
 SHEET: 8.5x11
 SHL: 27-15N-12W
 BHL-6 3-14N-12W



COVER SHEET

CONTINENTAL RESOURCES, INC.

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

Section 27 Township 15N Range 12W I.M.Well: HOLSTEIN 6-27-34-3XHMCounty BLAINE State OKWell: --Operator CONTINENTAL RESOURCES, INC.

NAD-83

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W6	HOLSTEIN 6-27-34-3XHM	274398	1831171	35° 45' 10.46" -98° 27' 48.15"	35.752906 -98.462820	462' FNL / 2341' FEL (NE/4 SEC 27)	1573.43'	1573.42'
LP-6	LANDING POINT	274396	1831529	35° 45' 10.46" -98° 27' 41.81"	35.752906 -98.461613	462' FNL / 1983' FEL (NE/4 SEC 27)	--	--
BHL-6	BOTTOM HOLE LOCATION	259101	1831420	35° 42' 39.19" -98° 27' 42.25"	35.710885 -98.461736	50' FSL / 1983' FEL (SE/4 SEC 3)	--	--
X-1	DICKENS UNIT #1	273541	1832187	35° 45' 02.03" -98° 27' 33.77"	35.750563 -98.459381	27-15N-12W: TD: 10,344' 1,315' FNL / 1,320' FEL	--	--
X-2	HOLSTEIN #1-27H	269849	1828845	35° 44' 25.36" -98° 28' 14.11"	35.740377 -98.470585	27-15N-12W: TD: 17,420' 255' FSL / 620' FWL	--	--
X-3	HOLSTEIN #2-27H	269981	1833056	35° 44' 26.87" -98° 27' 23.03"	35.740797 -98.458398	27-15N-12W: TD: 17,204' 400' FSL / 430' FEL	--	--
X-4	O.P. RUTH #1	266304	1830175	35° 43' 50.36" -98° 27' 57.76"	35.730656 -98.466045	34-15N-12W: TD: 11,011' 1,980' FSL / 1,980' FWL	--	--
X-5	BAHAN #1	268271	1832163	35° 44' 09.91" -98° 27' 33.76"	35.738087 -98.459379	34-15N-12W: TD: 13,661' 1,313' FNL / 1,314' FEL	--	--
X-6	BAHAN #1	268591	1832286	35° 44' 13.08" -98° 27' 32.28"	35.736966 -98.458970	34-15N-12W: TD: 10,700' 993' FNL / 1,193' FEL	--	--
X-7	DUNCAN #1-34H	264561	1829468	35° 43' 33.10" -98° 28' 06.24"	35.725861 -98.468400	34-15N-12W: TD: 17,400' 235' FSL / 1,290' FWL	--	--
X-8	BAILEY #1-34-3XH	269306	1833177	35° 44' 20.20" -98° 27' 21.52"	35.738944 -98.455977	34-15N-12W: TD: 22,275' 275' FNL / 305' FEL	--	--
X-9	CARTER #1-3	260379	1829614	35° 42' 51.74" -98° 28' 04.23"	35.714373 -98.467841	3-14N-12W: TD: 11,096' 1,320' FSL / 1,470' FWL	--	--
X-10	ROMACK #1-3H	259335	1829240	35° 42' 41.40" -98° 28' 08.69"	35.711501 -98.469081	3-14N-12W: TD: 17,700' 275' FSL / 1,105' FWL	--	--
X-11	BODEN #2-10-15XHM	259817	1828508	35° 42' 46.14" -98° 28' 17.60"	35.712816 -98.471555	3-14N-12W: TD: 1,482' 754' FSL / 369' FWL	--	--
X-12	BODEN #3-10-15XHM	259348	1830435	35° 42' 41.58" -98° 27' 54.20"	35.711550 -98.465056	3-14N-12W: TD: 22,952' 292' FSL / 2,300' FWL	--	--
X-13	BODEN #4-10-15XHM	259402	1832252	35° 42' 42.20" -98° 27' 32.18"	35.711724 -98.458938	3-14N-12W: TD: 18,133' 356' FSL / 1,153' FEL	--	--

REVISIONS

No.	DATE	STAKED	BY	DESCRIPTION	COMMENTS
00	9-5-19	9-9-19	TJW	ISSUED FOR APPROVAL	--
01	9-27-19	**-**-**	TJW	REMOVE FBP & RELOCATE PAD	REV'D ALL EXHIBITS

Certificate of Authorization No. 7318



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

EXHIBIT: A (2 of 3)
 SHEET: 8.5x11
 SHL: 27-15N-12W
 BHL-6 3-14N-12W



COVER SHEET CONTINUED...

CONTINENTAL RESOURCES, INC.

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

Section 27 Township 15N Range 12W I.M.

Well: HOLSTEIN 6-27-34-3XHM

County BLAINE State OK

Well: ---

Operator CONTINENTAL RESOURCES, INC.

NAD-27						EXISTING ELEVATION	DESIGN ELEVATION
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		
W6	HOLSTEIN 6-27-34-3XHM	274374	1862772	35° 45' 10.30" -98° 27' 44.89"	35.752860 -98.462469	462' FNL / 2341' FEL (NE/4 SEC 27)	1573.43'
LP-6	LANDING POINT	274372	1863129	35° 45' 10.30" -98° 27' 40.55"	35.752860 -98.461263	462' FNL / 1983' FEL (NE/4 SEC 27)	--
BHL-6	BOTTOM HOLE LOCATION	259076	1863020	35° 42' 39.02" -98° 27' 41.00"	35.710838 -98.461388	50' FSL / 1983' FEL (SE/4 SEC 3)	--
X-1	DICKENS UNIT #1	273516	1863788	35° 45' 01.86" -98° 27' 32.51"	35.750517 -98.459031	27-15N-12W: TD: 10,344' 1,315' FNL / 1,320' FEL	--
X-2	HOLSTEIN #1-27H	269824	1860445	35° 44' 25.19" -98° 28' 12.85"	35.740331 -98.470235	27-15N-12W: TD: 17,420' 255' FSL / 620' FWL	--
X-3	HOLSTEIN #2-27H	269957	1864657	35° 44' 26.70" -98° 27' 21.77"	35.740751 -98.456046	27-15N-12W: TD: 17,204' 400' FSL / 430' FEL	--
X-4	O.P. RUTH #1	266279	1861776	35° 43' 50.19" -98° 27' 56.50"	35.730610 -98.465895	34-15N-12W: TD: 11,011' 1,980' FSL / 1,980' FWL	--
X-5	BAHAN #1	268247	1863763	35° 44' 09.75" -98° 27' 32.51"	35.736041 -98.459030	34-15N-12W: TD: 13,661' 1,313' FNL / 1,314' FEL	--
X-6	BAHAN #1	268566	1863886	35° 44' 12.91" -98° 27' 31.04"	35.736920 -98.458621	34-15N-12W: TD: 10,700' 993' FNL / 1,193' FEL	--
X-7	DUNCAN #1-34H	264537	1861068	35° 43' 32.93" -98° 28' 04.98"	35.725814 -98.468050	34-15N-12W: TD: 17,400' 235' FSL / 1,290' FWL	--
X-8	BAILEY #1-34-3XH	269282	1864778	35° 44' 20.03" -98° 27' 20.26"	35.738897 -98.455628	34-15N-12W: TD: 22,275' 275' FNL / 305' FEL	--
X-9	CARTER #1-3	260354	1861214	35° 42' 51.57" -98° 28' 02.97"	35.714326 -98.467492	3-14N-12W: TD: 11,096' 1,320' FSL / 1,470' FWL	--
X-10	ROMACK #1-3H	259311	1860841	35° 42' 41.24" -98° 28' 07.44"	35.711454 -98.468732	3-14N-12W: TD: 17,700' 275' FSL / 1,105' FWL	--
X-11	BODEN #2-10-15XHM	259793	1860108	35° 42' 45.97" -98° 28' 16.34"	35.712769 -98.471206	3-14N-12W: TD: 1,482' 754' FSL / 369' FWL	--
X-12	BODEN #3-10-15XHM	259323	1862036	35° 42' 41.41" -98° 27' 52.94"	35.711503 -98.464707	3-14N-12W: TD: 22,952' 292' FSL / 2,300' FWL	--
X-13	BODEN #4-10-15XHM	259378	1863852	35° 42' 42.04" -98° 27' 30.92"	35.711677 -98.458589	3-14N-12W: TD: 18,133' 356' FSL / 1,153' FEL	--

Certificate of Authorization No. 7318



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

CURRENT REV.: 1

