

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

API NUMBER: 011 24243

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 ☐ NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 360 1331

Lease Name: HOLSTEIN

Well No: 4-27-34-3XHM

Well will be 360 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

MOON FAMILY TRUST
P.O. BOX 75
GREENFIELD OK 73043

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

	Name	Depth	Name	Depth
1	CHESTER	10734	6	
2	MISSISSIPPIAN	11774	7	
3	MISSISSIPPI LIME	11985	8	
4	MISS'AN LM	12205	9	
5			10	

Spacing Orders: 582847
117120
587453

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201904244
201904245
201904248
201904253
201904252

Special Orders:

Total Depth: 27095

Ground Elevation: 1612

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 90

Deep surface casing has been approved

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 BED AQUIFER

Pit Location Formation: MARLOW

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

PERMIT NO: 19-36905

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: SW SW SE SW

Feet From: SOUTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 1331

Depth of Deviation: 11393

Radius of Turn: 472

Direction: 180

Total Length: 14961

Measured Total Depth: 27095

True Vertical Depth: 12205

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

Notes:

Category

Description

DEEP SURFACE CASING

9/3/2019 - 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

9/3/2019 - 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

9/3/2019 - 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

9/3/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201904244

9/11/2019 - 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 24243 HOLSTEIN 4-27-34-3XHM

PENDING CD - 201904245	9/23/2019 - GC2 - 34-15N-12W X587453 MSSLM 4 WELLS NO OP. NAMED REC. 10-7-2019 (THOMAS)
PENDING CD - 201904248	9/11/2019 - GC2 - 3-14N-12W X117120 MPLM 4 WELLS NO OP. NAMED REC. 9-9-2019 (THOMAS)
PENDING CD - 201904252	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 - 201904253	9/11/2019 - 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' FWL COMPL. INT. (34-15N-12W) NCT 0' FNL, NCT 0' FSL, NCT 990' FWL COMPL. INT. (3-14N-12W) NCT 0' FNL, NCT 150' FSL, NCT 990' FWL CONTINENTAL RESOURCES INC REC. 9-9-2019 (THOMAS)
SPACING - 117120	9/11/2019 - GC2 - (640) 3-14N-12W & 34-15N-12W EXT OTHERS EXT CSTR, MPLM (VAC 34-15N-12W BY 587453), OTHERS
SPACING - 582847	9/11/2019 - GC2 - (640) 27-15N-12W EXT 427321/579154 MSSP, OTHERS
SPACING - 587453	9/11/2019 - 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-4 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 4-27-34-3XHMCounty BLAINE State OKWell: ---Operator CONTINENTAL RESOURCES, INC.

NAD-83

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W4	HOLSTEIN 4-27-34-3XHM	274506	1828560	35° 45' 11.45" -98° 28' 05.71"	35.753182 -98.468252	360' FNL / 1331' FWL (NW/4 SEC 27)	1610.15'	1612.37'
LP-4	LANDING POINT	274276	1828559	35° 45' 09.18" -98° 28' 05.70"	35.752549 -98.468250	590' FNL / 1331' FWL (NW/4 SEC 27)	--	--
BHL-4	BOTTOM HOLE LOCATION	259110	1829464	35° 42' 39.18" -98° 28' 05.96"	35.710884 -98.468322	50' FSL / 1331' FWL (SW/4 SEC 03)	--	--
X-1	DICKENS UNIT #1	273341	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 / 820' FWL	--	--
X-3	HOLSTEIN #2-27H	269981	1833056	35° 44' 26.87" -98° 27' 23.03"	35.740797 -98.458396	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: 13,861' 1,313' FNL / 1,314' FEL	--	--
X-6	BAHAN #1	268591	1832286	35° 44' 13.08" -98° 27' 32.28"	35.736968 -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	268306	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 -98.468938	3-14N-12W: TD: 18,133' 356' FSL / 1,153' FEL	--	--

REVISIONS

No.	DATE	STAKED	BY	DESCRIPTION	COMMENTS
00	08-14-19	08-19-19	TJW	ISSUED FOR APPROVAL	--

Certificate of Authorization No. 7318



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

EXHIBIT: A (3 of 3)
SHEET: 8.5x14
SHL: 27-15N-12W
BHL-4 3-14N-12W

PETRO LAND SERVICES SOUTH, LLC

10400 VINEYARD BLVD., SUITE C, OKLA. CITY, OKLA. 73126 * OFFICE (405) 212-3108
Certificate of Authorization No. 7318



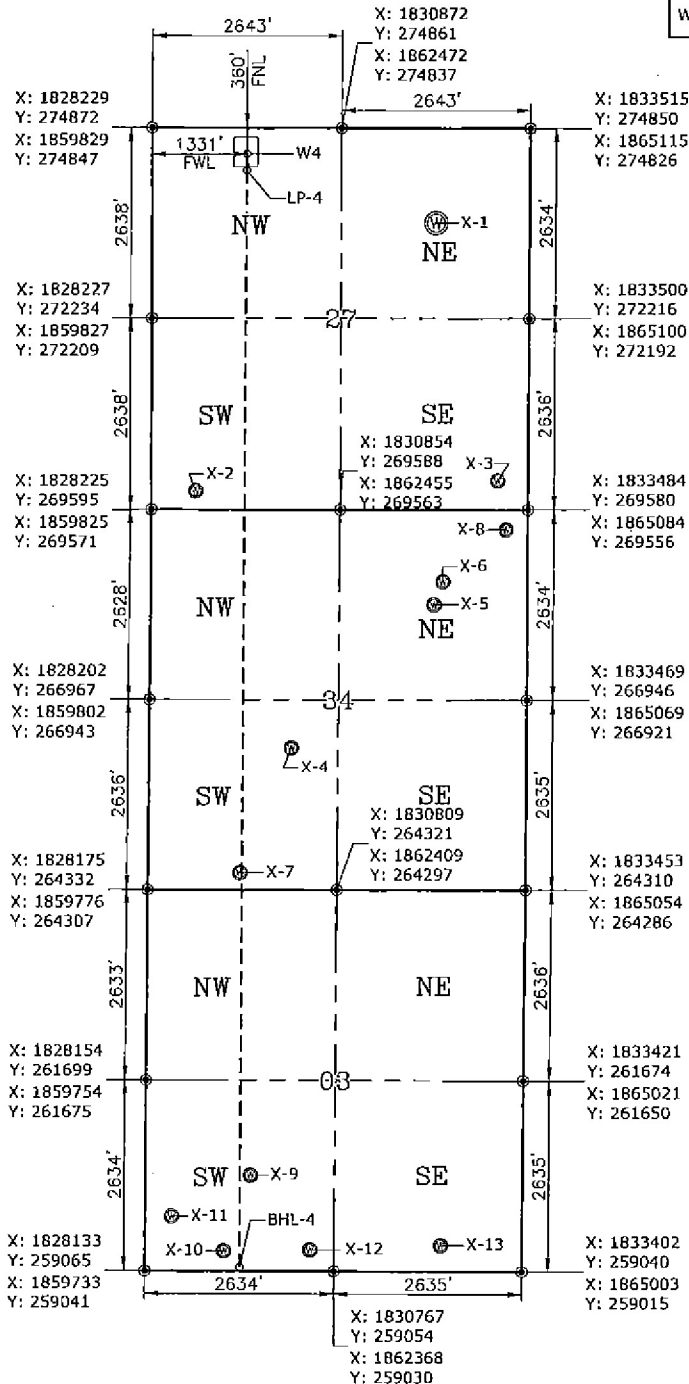
CONTINENTAL
RESOURCES, INC.
(OPERATOR)

BLAINE

County Oklahoma

360' FNL-1331' FWL Section 27 Township 15N Range 12W I.M.

WELL: HOLSTEIN
4-27-34-3XHM



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

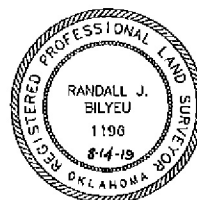
CURRENT REV: 0

Date Drawn: 08-14-19

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