

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

API NUMBER: 011 23981

Approval Date: 04/10/2018

Expiration Date: 10/10/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 04 Twp: 16N Rge: 12W County: BLAINE
SPOT LOCATION: SW NE NW NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 375 1841

Lease Name: MADELINE Well No: 2-4-9XHM Well will be 375 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

LOOSEN FAMILY L.P. C/O GEORGE KEENEY
PO BOX 1337
OKLAHOMA CITY OK 73101

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

Name	Depth	Name	Depth
1 MISSISSIPPI LIME	10256	6	
2 MISSISSIPPIAN (EX CHESTER)	10298	7	
3		8	
4		9	
5		10	

Spacing Orders: 645179
490620

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201802279
201802281
201802277
201802278

Special Orders:

Total Depth: 20247 Ground Elevation: 1506 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 100

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 ALLUVIAL

Pit Location Formation: ALLUVIUM

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-34170
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 ALLUVIAL

Pit Location Formation: ALLUVIUM

HORIZONTAL HOLE 1

Sec 09 Twp 16N Rge 12W County BLAINE

Spot Location of End Point: SE SW SE SE

Feet From: SOUTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 880

Depth of Deviation: 9840

Radius of Turn: 464

Direction: 177

Total Length: 9678

Measured Total Depth: 20247

True Vertical Depth: 10956

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

Notes:

Category

Description

DEEP SURFACE CASING

3/22/2018 - 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

3/22/2018 - 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

INTERMEDIATE CASING

3/22/2018 - 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

3/22/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS (REQUIRED - NORTH CANADIAN RIVER), PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

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.

Category	Description
PENDING CD - 201802277	3/23/2018 - G56 - 4-16N-12W X490620 MSSLM 1 WELL NO OP. NAMED HEARING 4-13-18
PENDING CD - 201802278	3/23/2018 - G56 - 9-16N-12W X645179 MSNLC 1 WELL NO OP. NAMED HEARING 4-13-18
PENDING CD - 201802279	3/23/2018 - G56 - (E.O) 4 & 9-16N-12W EST. MULTIUNIT HOR. WELL X490620 MSSLM 4-16N-12W X645179 MSNLC 9-16N-12W 50% 4-16N-12W 50% 9-16N-12W CONTINENTAL RESOURCES, INC. REC. 4-10-18 (M. PORTER)
PENDING CD - 201802281	3/23/2018 - G56 - (E.O.) 4 & 9-16N-12W X490620 MSSLM 4-16N-12W X645179 MSNLC 9-16N 12W X165: 10-3-28 (C)(2)(B) MAY BE CLOSER THAN 600' TO PROPOSED/EXISTING WELL COMPL. INT. (4-16N-12W) NCT 150' FNL, NCT 0' FSL, NCT 330' FEL COMPL. INT. (9-16N-12W) NCT 0' FNL, NCT 150' FSL, NCT 330' FEL CONTINENTAL RESOURCES, INC. REC. 4-10-18 (M. PORTER)
SPACING - 490620	3/23/2018 - G56 - (640) 4-16N-12W EST MSSLM
SPACING - 645179	3/23/2018 - G56 - (640) 9-16N-12W EST (VERT) OTHERS EST (HOR) MSNLC, OTHERS COMPL. INT. NCT 660' FB

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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: 04-16N-12W
 BHL: 09-16N-12W



COVER SHEET

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

Section 04 Township 16N Range 12W I.M. Well: MADELINE 2-4-9XHM
 County BLAINE State OK Well: --
 Operator CONTINENTAL RESOURCES, INC.

NAD-83								
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W2	MADELINE 2-4-9XHM	327140	1826701	35° 53' 51.85" -98° 28' 43.54"	35.897736 -98.478762	375' FNL / 1,841' FEL (NE/4 SEC 04)	1505.99	1506.21
LP-2	LANDING POINT	327135	1827662	35° 53' 51.84" -98° 28' 31.86"	35.897734 -98.475516	375' FNL / 880' FEL (NE/4 SEC 04)	--	--
BHL-2	BOTTOM HOLE LOCATION	317196	1827533	35° 52' 13.54" -98° 28' 32.83"	35.870429 -98.475787	50' FSL / 880' FEL (SE/4 SEC 09)	--	--
X-1	LOOSEN #1-4	326131	1827511	35° 53' 41.91" -98° 28' 33.63"	35.894975 -98.476010	4-16N-12W:NW4NW4SE4NE4 TD: 11,735' 1,140' FSL / 1,590' FWL	--	--
X-2	LOOSEN #2-4	323406	1824765	35° 53' 14.82" -98° 29' 06.84"	35.887451 -98.485232	4-16N-12W:SE4SW4 TD: 9,500' 1,000' FSL / 1,550' FWL	--	--
X-3	ROTHER #1-4H	323072	1827370	35° 53' 11.65" -98° 28' 35.17"	35.886569 -98.476435	4-16N-12W:W2W2SE4SE4 TD: 11,150' 660' FSL / 1,120' FEL	--	--
X-4	ROTHER #2-4	323222	1827375	35° 53' 13.13" -98° 28' 35.12"	35.886981 -98.476422	4-16N-12W:SW4NW4SE4SE4 TD: 9,400' 810' FSL / 1,120' FEL	--	--
X-5	H WHISLER UNIT #1-9	321101	1824626	35° 52' 52.02" -98° 29' 08.39"	35.881116 -98.485663	9-16N-12W:NNW4 TD: 9,005' 1,320' FSL / 1,445' FWL	--	--
X-6	WOLSEY #1-9	318467	1827290	35° 52' 26.10" -98° 28' 35.86"	35.873917 -98.476629	9-16N-12W:E2E2W2SE4 TD: 9,700' 1,320' FSL / 1,140' FWL	--	--
X-7	HOUSE #1-9	317815	1825349	35° 52' 19.55" -98° 28' 59.40"	35.872098 -98.483168	9-16N-12W:W2E2SE4SW4 TD: 9,800' 660' FSL / 2,200' FWL	--	--
X-8	WOLSEY #2-9	321099	1826974	35° 52' 52.12" -98° 28' 39.86"	35.881143 -98.477738	9-16N-12W:E2E2W2NE4 TD: 9,635' 1,320' FSL / 1,150' FWL	--	--
X-9	MADELINE #1-9-4XH	320076	1824891	35° 52' 41.89" -98° 29' 05.11"	35.878303 -98.484752	9-16N-12W:SE4SW4SE4SW4 TD: 20,384' 295' FSL / 1,720' FWL	--	--

NAD-27								
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W2	MADELINE 2-4-9XHM	327116	1858302	35° 53' 51.70" -98° 28' 42.27"	35.897693 -98.478408	375' FNL / 1,841' FEL (NE/4 SEC 04)	1505.99	1506.21
LP-2	LANDING POINT	327111	1859263	35° 53' 51.69" -98° 28' 30.58"	35.897691 -98.475162	375' FNL / 880' FEL (NE/4 SEC 04)	--	--
BHL-2	BOTTOM HOLE LOCATION	317172	1859134	35° 52' 13.39" -98° 28' 31.56"	35.870386 -98.475433	50' FSL / 880' FEL (SE/4 SEC 09)	--	--
X-1	LOOSEN #1-4	326107	1859112	35° 53' 41.76" -98° 28' 32.36"	35.894932 -98.475656	4-16N-12W:NNW4NW4SE4NE4 TD: 11,735' 1,140' FSL / 1,590' FWL	--	--
X-2	LOOSEN #2-4	323382	1856367	35° 53' 14.67" -98° 29' 05.56"	35.887409 -98.484878	4-16N-12W:SE4SW4 TD: 9,500' 1,000' FSL / 1,550' FWL	--	--
X-3	ROTHER #1-4H	323048	1858971	35° 53' 11.50" -98° 28' 33.89"	35.886527 -98.476081	4-16N-12W:W2W2SE4SE4 TD: 11,150' 660' FSL / 1,120' FEL	--	--
X-4	ROTHER #2-4	323198	1858976	35° 53' 12.98" -98° 28' 33.84"	35.886939 -98.476068	4-16N-12W:SW4NW4SE4SE4 TD: 9,400' 810' FSL / 1,120' FEL	--	--
X-5	H WHISLER UNIT #1-9	321076	1856228	35° 52' 51.86" -98° 29' 07.11"	35.881073 -98.485309	9-16N-12W:NNW4 TD: 9,005' 1,320' FSL / 1,445' FWL	--	--
X-6	WOLSEY #1-9	318443	1858891	35° 52' 25.95" -98° 28' 34.59"	35.873874 -98.476275	9-16N-12W:E2E2W2SE4 TD: 9,700' 1,320' FSL / 1,140' FWL	--	--
X-7	HOUSE #1-9	317790	1856951	35° 52' 19.40" -98° 28' 58.13"	35.872055 -98.482814	9-16N-12W:W2E2SE4SW4 TD: 9,800' 660' FSL / 2,200' FWL	--	--
X-8	WOLSEY #2-9	321075	1858576	35° 52' 51.96" -98° 28' 38.58"	35.881100 -98.477384	9-16N-12W:E2E2W2NE4 TD: 9,635' 1,320' FSL / 1,150' FWL	--	--
X-9	MADELINE #1-9-4XH	320051	1856493	35° 52' 41.74" -98° 29' 03.83"	35.878260 -98.484398	9-16N-12W:SE4SW4SE4SW4 TD: 20,384' 295' FSL / 1,720' FWL	--	--

Certificate of Authorization No. 7318

Date Staked: 03-19-18
 Date Drawn: 03-19-18



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

REVISIONS				
No.	DATE	BY	DESCRIPTION	COMMENTS
00	03-19-18	MJL	ISSUED FOR APPROVAL	--

EXHIBIT: A (2 of 2)
 SHEET: 8.5x14
 SHL: 04-16N-12W
 BHL-1: 09-16N-12W

PETRO LAND SERVICES SOUTH, LLC

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



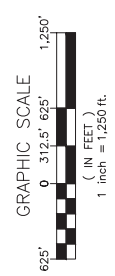
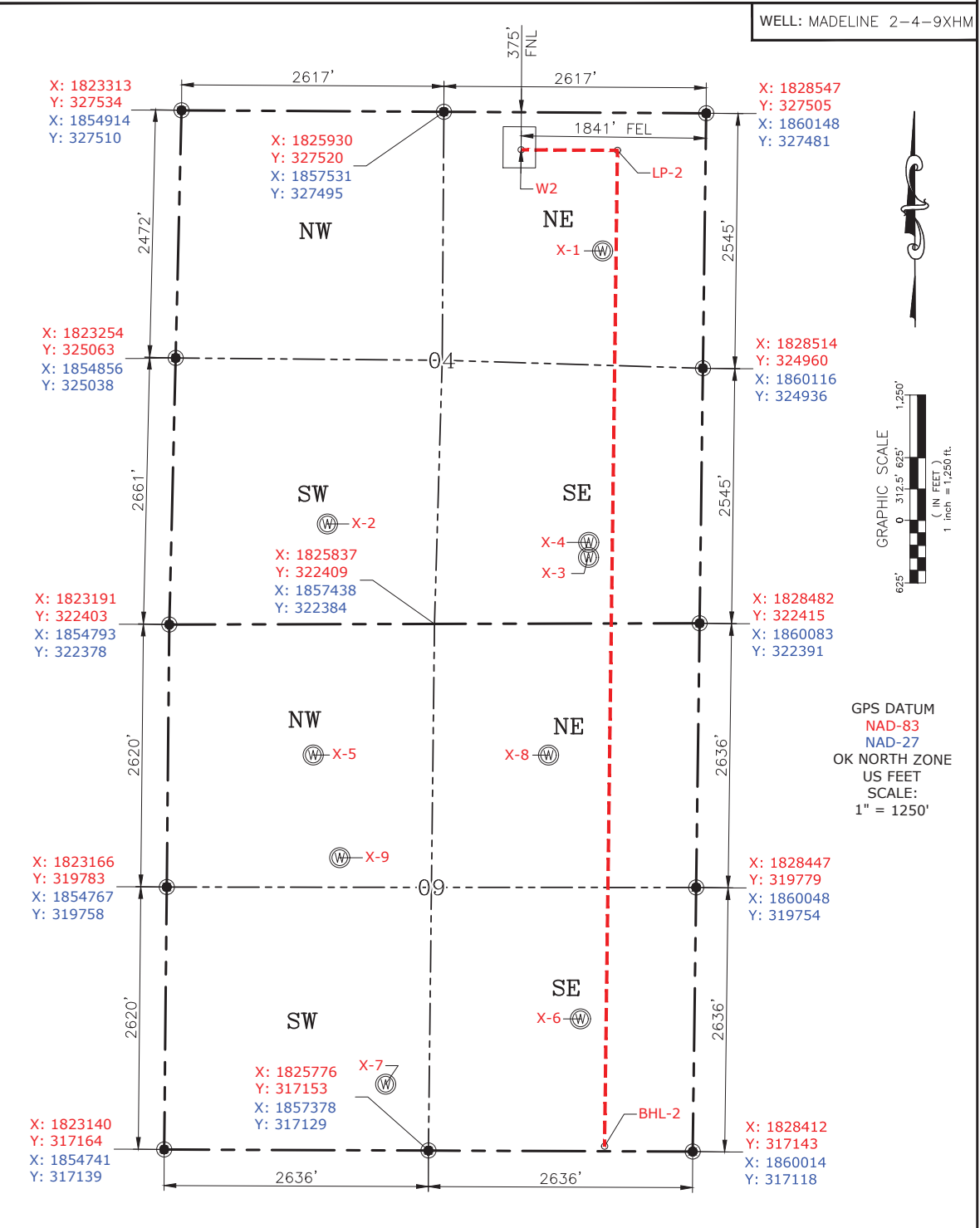
CONTINENTAL
 RESOURCES, INC
 (OPERATOR)

BLAINE

County Oklahoma

375' FNL-1,841' FEL Section 04 Township 16N Range 12W I.M.

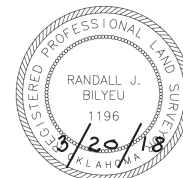
WELL: MADELINE 2-4-9XHM



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

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.

Date Staked: 03-19-18
 Date Drawn: 03-19-18



Randall J. Bilyeu

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.

Oklahoma PLS No.1196 DATE