

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

API NUMBER: 051 24668

Approval Date: 07/02/2019

Expiration Date: 01/02/2021

Horizontal Hole
Multi Unit

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 28 Twp: 6N Rge: 5W

County: GRADY

SPOT LOCATION: ☐ NW ☐ NW ☐ NE ☐ NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 280 1520

Lease Name: UMBACH

Well No: 2-21-28-33XHW

Well will be 280 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

WAYNE BOWEN RIMER
305 COUNTY RD 1942
YANTIS TX 75497

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

Name	Depth	Name	Depth
1 WOODFORD	12769	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 610650
630983

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201903109
201903104
201903105
201903108

Special Orders:

Total Depth: 23055

Ground Elevation: 1169

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: 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

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

PERMIT NO: 19-36698

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 33 Twp 6N Rge 5W County GRADY

Spot Location of End Point: NE SE SW SW

Feet From: SOUTH 1/4 Section Line: 350

Feet From: WEST 1/4 Section Line: 1188

Depth of Deviation: 11917

Radius of Turn: 477

Direction: 183

Total Length: 10388

Measured Total Depth: 23055

True Vertical Depth: 13295

End Point Location from Lease,
Unit, or Property Line: 350

Additional Surface Owner	Address	City, State, Zip
DEWAYNE BOWEN RIMER	2271 STATE HIGHWAY 39	BLANCHARD, OK 73010
RODNEY DALE RIMER	2271 STATE HIGHWAY 39	BLANCHARD, OK 73010

Notes:

Category

Description

DEEP SURFACE CASING

6/11/2019 - 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

6/11/2019 - 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

MEMO

6/11/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

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

051 24668 UMBACH 2-21-28-33XHW

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 - 201903104	6/19/2019 - G58 - 28-6N-5W X610650 WDFD 5 WELLS NO OP. NAMED REC 7/2/2019 (NORRIS)
PENDING CD - 201903105	6/19/2019 - G58 - 33-6N-5W X630983 WDFD 5 WELLS NO OP. NAMED REC 7/2/2019 (NORRIS)
PENDING CD - 201903108	6/19/2019 - G58 - (I.O.) 28 & 33-6N-5W EST MULTIUNIT HORIZONTAL WELL XOTHER X610650 WDFD X630983 WDFD, OTHER (WDFD IS TARGET RESERVOIR) 50% 28-6N-5W 50% 33-6N-5W NO OP. NAMED REC 7/2/2019 (NORRIS)
PENDING CD - 201903109	6/19/2019 - G58 - (I.O.) 28 & 33-6N-5W XOTHER X610650 WDFD X630983 WDFD, OTHER X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO THE MAY 2-21H WELL & THE MAY 1-21-16XH WELL COMPL. INT. 28-6N-5W NCT 150' FNL, NCT 0' FSL, NCT 660' FWL COMPL. INT. 33-6N-5W NCT 0' FNL, NCT 150' FSL, NCT 660' FWL NO OP. NAMED REC 7/2/2019 (NORRIS)
SPACING - 610650	6/19/2019 - G58 - (640) 28-6N-5W EST OTHERS EXT OTHER EXT 595406 WDFD, OTHERS
SPACING - 630983	6/19/2019 - G58 - (640)(HOR) 33-6N-5W VAC OTHERS EXT (640) OTHERS EST (640)(HOR) WDFD, OTHERS POE TO BHL NCT 330' FB

EXHIBIT: A (1 of 2)
SHEET: 8.5x14
SHL: 28-6N-5W
BHL-2 33-6N-5W



COVER SHEET

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

051-24668

Section 28 Township 6N Range 5W I.M.
County GRADY State OK
Operator CONTINENTAL RESOURCES, INC.

Well: UMBACH 2-21-28-33XHW
Well: --

NAD-83							
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE	EXISTING ELEVATION	DESIGN ELEVATION
W2	UMBACH 2-21-28-33XHW	595979	2047537	34° 58' 14.47" -97° 44' 10.27"	34.970685 -97.736187	280' FNL / 1520' FWL (NW/4 SEC 28)	1169.39' 1171.56'
LP-2	LANDING POINT	596407	2047204	34° 58' 18.71" -97° 44' 14.27"	34.971865 -97.737296	150' FSL / 1188' FWL (SW/4 SEC 21)	-- --
BHL-2	BOTTOM HOLE LOCATION	586019	2047253	34° 56' 35.96" -97° 44' 14.00"	34.943322 -97.737222	350' FSL / 1188' FWL (SW/4 SEC 33)	-- --
X-1	MITCHELL #1-21	600900	2050799	34° 59' 03.06" -97° 43' 30.91"	34.984184 -97.725254	21-6N-5W: TD: 14,050' 668' FNL / 521' FEL	-- --
X-2	MAY #7-21-16XH	599110	2050927	34° 58' 45.35" -97° 43' 29.43"	34.979263 -97.724843	21-6N-5W: TD: 19,875' 2,459' FNL / 393' FEL	-- --
X-3	MAY #3-21-16XH	598569	2047717	34° 58' 40.09" -97° 44' 08.03"	34.977802 -97.735563	21-6N-5W: TD: 20,573' 2,310' FSL / 1,700' FWL	-- --
X-4	MAY #5-21-16XH	598567	2049356	34° 58' 40.02" -97° 43' 48.33"	34.977784 -97.730092	21-6N-5W: TD: 20,475' 2,301' FSL / 1,964' FEL	-- --
X-5	MAY #2-21H	596506	2046861	34° 58' 19.70" -97° 44' 18.38"	34.972138 -97.738440	21-6N-5W: TD: 17,575' 250' FSL / 845' FWL	-- --
X-6	MAY #4-21-16XH	598569	2047762	34° 58' 40.09" -97° 44' 07.49"	34.977802 -97.735413	21-6N-5W: TD: 20,542' 2,310' FSL / 1,745' FWL	-- --
X-7	MAY #6-21-16XH	598567	2049401	34° 58' 40.02" -97° 43' 47.79"	34.977785 -97.729942	21-6N-5W: TD: 20,398' 2,301' FSL / 1,919' FEL	-- --
X-8	MAY #1-21-16XH	596505	2046816	34° 58' 19.70" -97° 44' 18.93"	34.972138 -97.738590	21-6N-5W: TD: 22,925' 250' FSL / 800' FWL	-- --
X-9	PIPKIN #1-28H	591359	2046236	34° 57' 28.81" -97° 44' 26.05"	34.958002 -97.740570	28-6N-5W: TD: 17,430' 400' FSL / 200' FWL	-- --

NAD-27							
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE	EXISTING ELEVATION	DESIGN ELEVATION
W2	UMBACH 2-21-28-33XHW	595937	2079134	34° 58' 14.22" -97° 44' 09.14"	34.970617 -97.735871	280' FNL / 1520' FWL (NW/4 SEC 28)	1169.39' 1171.56'
LP-2	LANDING POINT	596365	2078800	34° 58' 18.47" -97° 44' 13.13"	34.971796 -97.736980	150' FSL / 1188' FWL (SW/4 SEC 21)	-- --
BHL-2	BOTTOM HOLE LOCATION	585977	2078849	34° 56' 35.71" -97° 44' 12.86"	34.943252 -97.736906	350' FSL / 1188' FWL (SW/4 SEC 33)	-- --
X-1	MITCHELL #1-21	600858	2082396	34° 59' 02.82" -97° 43' 29.78"	34.984115 -97.724938	21-6N-5W: TD: 14,050' 668' FNL / 521' FEL	-- --
X-2	MAY #7-21-16XH	599068	2082524	34° 58' 45.10" -97° 43' 28.30"	34.979194 -97.724527	21-6N-5W: TD: 19,875' 2,459' FNL / 393' FEL	-- --
X-3	MAY #3-21-16XH	598527	2079314	34° 58' 39.84" -97° 44' 06.89"	34.977733 -97.735247	21-6N-5W: TD: 20,573' 2,310' FSL / 1,700' FWL	-- --
X-4	MAY #5-21-16XH	598525	2080953	34° 58' 39.78" -97° 43' 47.19"	34.977716 -97.729776	21-6N-5W: TD: 20,475' 2,301' FSL / 1,964' FEL	-- --
X-5	MAY #2-21H	596464	2078457	34° 58' 19.45" -97° 44' 17.25"	34.972070 -97.738124	21-6N-5W: TD: 17,575' 250' FSL / 845' FWL	-- --
X-6	MAY #4-21-16XH	598528	2079359	34° 58' 39.84" -97° 44' 06.35"	34.977733 -97.735097	21-6N-5W: TD: 20,542' 2,310' FSL / 1,745' FWL	-- --
X-7	MAY #6-21-16XH	598525	2080998	34° 58' 39.78" -97° 43' 46.65"	34.977716 -97.729626	21-6N-5W: TD: 20,398' 2,301' FSL / 1,919' FEL	-- --
X-8	MAY #1-21-16XH	596464	2078412	34° 58' 19.45" -97° 44' 17.79"	34.972069 -97.738274	21-6N-5W: TD: 22,925' 250' FSL / 800' FWL	-- --
X-9	PIPKIN #1-28H	591317	2077833	34° 57' 28.56" -97° 44' 24.91"	34.957933 -97.740254	28-6N-5W: TD: 17,430' 400' FSL / 200' FWL	-- --

Certificate of Authorization No. 7318

Date Staked: **--**--19
Date Drawn: 5-21-19



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

REVISIONS

No.	DATE	BY	DESCRIPTION	COMMENTS
00	5-21-19	HOG	ISSUED FOR APPROVAL	--

EXHIBIT: A (2 of 2)
SHEET: 8.5x14
SHL: 28-6N-5W
BHL-2 33-6N-5W

PETRO LAND SERVICES SOUTH, LLC

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



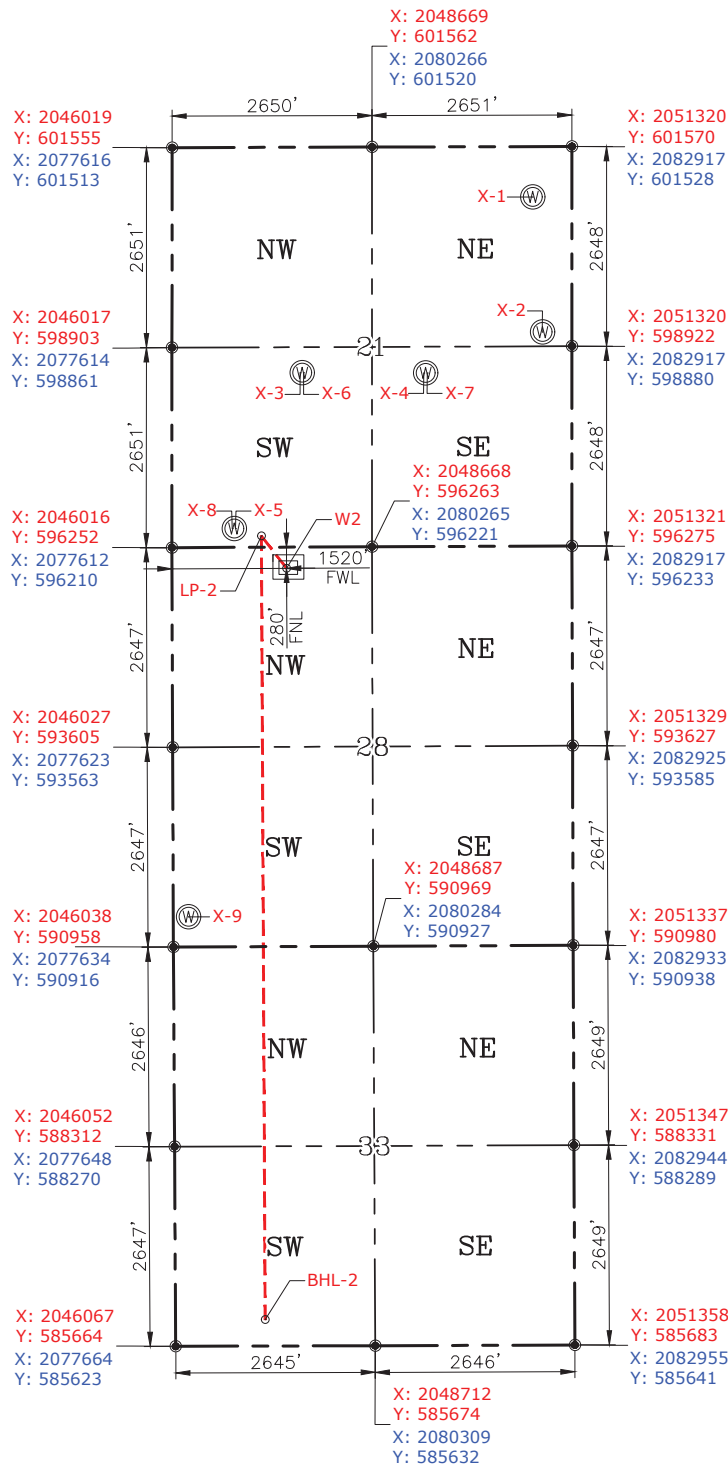
CONTINENTAL
RESOURCES, INC.
(OPERATOR)

GRADY

County Oklahoma

280' FNL-1520' FWL Section 28 Township 6N Range 5W I.M.

WELL: UMBACH
2-21-28-33XHW



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

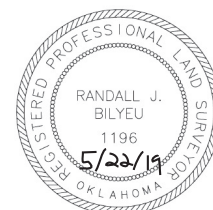
CURRENT REV.: 0

Date Drawn: 5-21-19

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