

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

API NUMBER: 051 24706 A

Approval Date: 08/29/2019
Expiration Date: 02/28/2021

Horizontal Hole Oil & Gas
Multi Unit

Amend reason: CHANGE SHL; UPDATE ORDERS

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 22 Twp: 6N Rge: 5W County: GRADY
SPOT LOCATION: SW SE NW SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 1638 1744

Lease Name: SPARKS Well No: 3-22-27XHW Well will be 1638 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

COMMISSIONERS OF THE LAND OFFICE STATE OF OKLAHOMA
P.O. BOX 26910
OKLAHOMA CITY OK 73126

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

Name	Depth	Name	Depth
1 WOODFORD	12220	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 590519 Location Exception Orders: 702897 Increased Density Orders: 702496
595406 702805

Pending CD Numbers: 201903802

Special Orders:

Total Depth: 19915 Ground Elevation: 1123 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 280

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: Yes

PIT 1 INFORMATION

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

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 19-36772
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: DUNCAN

HORIZONTAL HOLE 1

Sec 27 Twp 6N Rge 5W County GRADY

Spot Location of End Point: S2 S2 SW SE

Feet From: SOUTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 1980

Depth of Deviation: 11466

Radius of Turn: 382

Direction: 181

Total Length: 7849

Measured Total Depth: 19915

True Vertical Depth: 12220

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

Notes:

Category

Description

DEEP SURFACE CASING

7/22/2019 - 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

7/22/2019 - 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

INCREASED DENSITY - 702496

8/29/2019 - G56 - 22-6N-5W
X590519 WDFD
9 WELLS
NO OP NAMED
9/19/2019

INCREASED DENSITY - 702805

8/29/2019 - G56 - 27-6N-5W
X595406 WDFD
4 WELLS
NO OP NAMED
9/25/2019

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.

LOCATION EXCEPTION - 702897	8/29/2019 - G56 - (I.O.) 22 & 27-6N-5W X590519 WDFD 22-6N-5W X595406 WDFD 27-6N-5W X165:10-3-28(C)(2)(B) WDFD MAY BE CLOSER THAN 600' TO EXISTING AND/OR PROPOSED WELLS COMPL INT (22-6N-5W) NCT 150' FNL, NCT 0' FSL, NCT 1320' FEL COMPL INT (27-6N-5W) NCT 0' FNL, NCT 150' FSL, NCT 1320' FEL CONTINENTAL RESOURCES, INC. 9/27/2019
MEMO	7/22/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 201903802	8/29/2019 - G56 - (I.O.) 22 & 27-6N-5W ESTABLISH MULTIUNIT HORIZONTAL WELL X590519 WDFD 22-6N-5W X595406 WDFD 27-6N-5W 33% 22-6N-5W 67% 27-6N-5W CONTINENTAL RESOURCES, INC. REC 8/27/2019 (P. PORTER)
SPACING - 590519	8/28/2019 - G56 - (640) 22-6N-5W EXT 587940/153801 WDFD
SPACING - 595406	8/28/2019 - G56 - (640) 27-6N-5W EXT 167964/VAR/190352 WDFD, OTHERS

This permit does not address the right of entry or settlement of surface damages.
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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 4)
 SHEET: 8.5x11
 SHL: 22-6N-5W
 BHL-3 27-6N-5W
 BHL-5 15-6N-5W



COVER SHEET

CONTINENTAL RESOURCES, INC.

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

Section 22 Township 6N Range 5W I.M. Well: SPARKS 3-22-27XHW
 County GRADY State OK Well: GALVIN 5-22-15XHW
 Operator CONTINENTAL RESOURCES, INC.

NAD-83

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE	EXISTING ELEVATION	DESIGN ELEVATION
W3	SPARKS 3-22-27XHW	597917	2054891	34° 58' 33.44" -97° 42' 41.84"	34.975957 -97.711622	1638' FSL / 1744' FEL (SE/4 SEC 22)	1120.28'
LP-3	LANDING POINT	597917	2054855	34° 58' 33.45" -97° 42' 44.67"	34.975957 -97.712409	1638' FSL / 1980' FEL (SE/4 SEC 22)	--
BHL-3	BOTTOM HOLE LOCATION	591040	2054865	34° 57' 25.43" -97° 42' 44.80"	34.957063 -97.712444	50' FSL / 1980' FEL (SE/4 SEC 27)	--
W5	GALVIN 5-22-15XHW	597947	2054891	34° 58' 33.74" -97° 42' 41.84"	34.976039 -97.711621	1668' FSL / 1744' FEL (SE/4 SEC 22)	1121.61'
LP-5	LANDING POINT	597947	2054457	34° 58' 33.75" -97° 42' 47.05"	34.976041 -97.713070	1668' FSL / 2178' FEL (SE/4 SEC 22)	--
BHL-5	BOTTOM HOLE LOCATION	606805	2054432	35° 00' 01.36" -97° 42' 47.05"	35.000379 -97.713070	50' FNL / 2178' FEL (NE/4 SEC 15)	--
X-1	GOOD #1	604502	2055288	34° 59' 38.56" -97° 42' 36.85"	34.994044 -97.710235	15-6N-5W: TD: 13,850' 2,352' FNL / 1,331' FEL	--
X-2	SPIVEY #1-15	603099	2052147	34° 59' 24.77" -97° 43' 14.65"	34.990214 -97.720735	15-6N-5W: TD: 13,778' 1,529' FSL / 829' FWL	--
X-3	GOOD MARTIN #5-10-3XH	606555	2054271	34° 59' 58.90" -97° 42' 49.00"	34.999694 -97.713610	15-6N-5W: TD: 20,041' 300' FNL / 2,340' FEL	--
X-4	GOOD MARTIN #3-10-3XH	606557	2052932	34° 59' 58.96" -97° 43' 05.09"	34.999711 -97.718081	15-6N-5W: TD: 17,821' 300' FNL / 1,620' FWL	--
X-5	GOOD MARTIN #1-10-3XH	606560	2051612	34° 59' 59.02" -97° 43' 20.98"	34.999727 -97.722469	15-6N-5W: TD: 20,102' 300' FNL / 300' FWL	--
X-6	GOOD MARTIN #4-10-3XH	606557	2052977	34° 59' 58.96" -97° 43' 04.55"	34.999710 -97.717931	15-6N-5W: TD: 20,268' 300' FNL / 1,665' FWL	--
X-7	GOOD MARTIN #2-10-3XH	606560	2051657	34° 59' 59.02" -97° 43' 20.42"	34.999727 -97.722338	15-6N-5W: TD: 20,242' 300' FNL / 345' FWL	--
X-8	GOOD MARTIN #6-10-3XH	606555	2054316	34° 59' 58.90" -97° 42' 48.46"	34.999693 -97.713460	15-6N-5W: TD: 20,170' 300' FNL / 2,295' FEL	--
X-9	PAYNE #1-22	600170	2055097	34° 58' 55.72" -97° 42' 39.29"	34.982144 -97.710913	22-6N-5W: TD: 13,750' 1,400' FNL / 1,534' FEL	--
X-10	GRIBI #1-22	598096	2052640	34° 58' 35.28" -97° 43' 08.88"	34.976466 -97.719134	22-6N-5W: TD: 12,990' 1,820' FSL / 1,320' FWL	--
X-11	GALVIN #1-22-27XH	601270	2051770	34° 59' 06.69" -97° 43' 19.23"	34.985191 -97.722009	22-6N-5W: TD: 19,635' 300' FNL / 450' FWL	--
X-12	SPARKS #1-27H	591182	2052136	34° 57' 26.90" -97° 43' 15.17"	34.957474 -97.720881	27-6N-5W: TD: 17,443' 200' FSL / 800' FWL	--

Certificate of Authorization No. 7318

Date Staked: **--**--**
 Date Drawn: 9-23-19



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

REVISIONS

No.	DATE	BY	DESCRIPTION	COMMENTS
00	6-21-19	TJW	ISSUED FOR APPROVAL	--
01	8-1-19	HDG	MOVED PAD SOUTH	REV'D ALL EXHIBITS
02	9-23-19	HDG	REV'D ACCESS & FACILITIES	REV'D EXHIBITS B,F,G,H,I & A
03	9-23-19	TJW	REV'D SHL LOCATIONS	REV'D EXS. A1,A2,B,C,D,E,F,H,I & A

EXHIBIT: A (3 of 4)
 SHEET: 8.5x14
 SHL: 22-6N-5W
 BHL-3 27-6N-5W

PETRO LAND SERVICES SOUTH, LLC

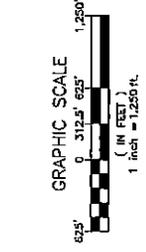
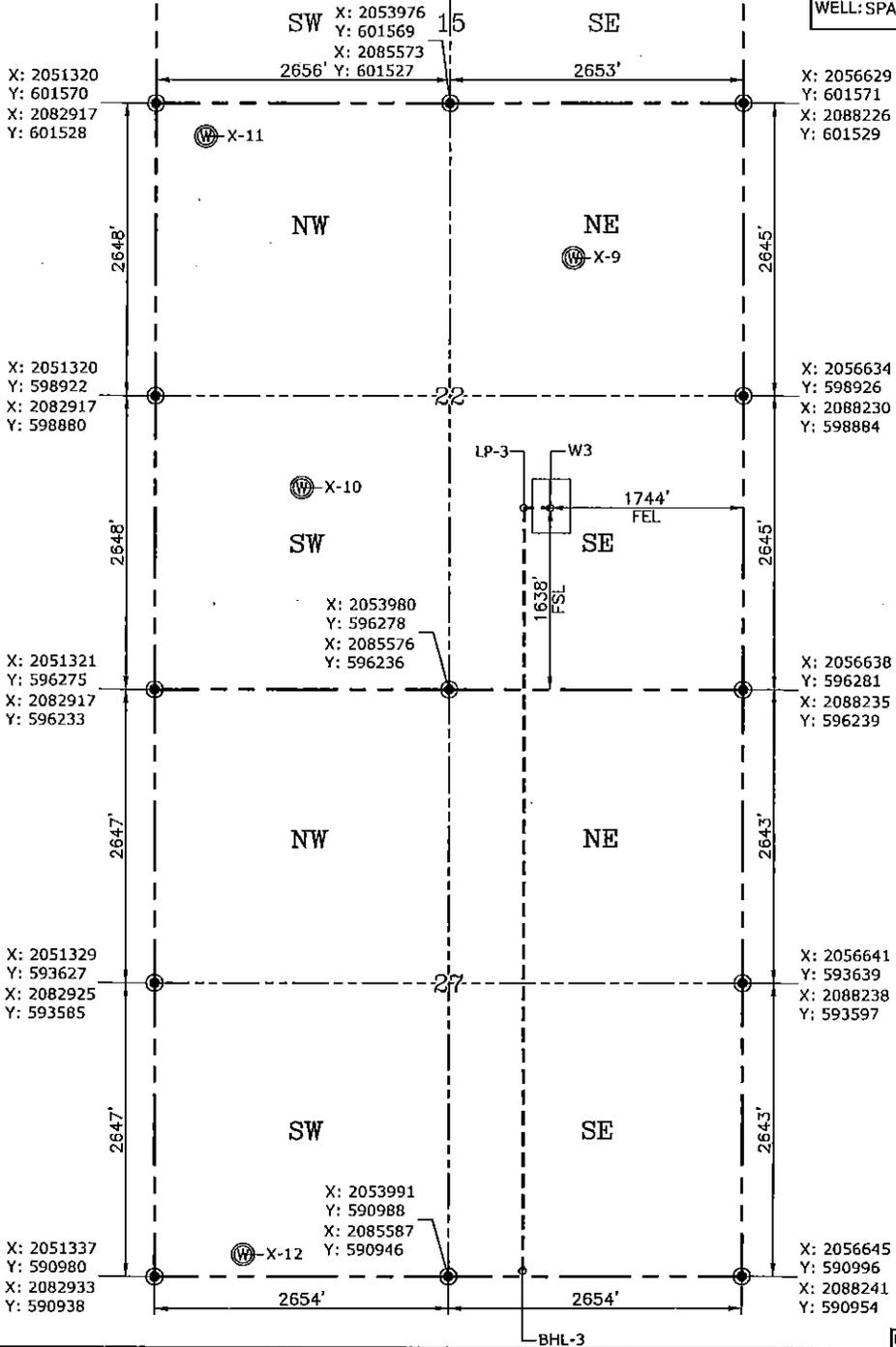
10400 VINEYARD BLVD, SUITE C, OKLA. CITY, OKLA. 73120 * OFFICE (405) 212-3108
 Certificate of Authorization No. 7318



CONTINENTAL
 RESOURCES, INC
 (OPERATOR)

GRADY County Oklahoma
 1638' FSL-1744' FEL Section 22 Township 6N Range 5W I.M.

WELL: SPARKS 3-22-27XHW



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

CURRENT REV: 3
 Date Drawn: 9-23-19

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.