

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

API NUMBER: 051 24686 A

Approval Date: 08/05/2019
Expiration Date: 02/05/2021

Horizontal Hole Oil & Gas
Multi Unit

Amend reason: CHANGE SHL; UPDATE ORDER

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 22 Twp: 6N Rge: 5W

County: GRADY

SPOT LOCATION: NW SE NW SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 1668 1744

Lease Name: GALVIN

Well No: 5-22-15XHW

Well will be 1668 feet from nearest unit or lease boundary.

Operator CONTINENTAL RESOURCES INC
Name:

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	MISSISSIPPIAN	11931	6	
2	WOODFORD	12246	7	
3	HUNTON	12351	8	
4			9	
5			10	

Spacing Orders: 147146
590519

Location Exception Orders:

Increased Density Orders: 702496

Pending CD Numbers: 201903669
201903670
201903620
201903619

Special Orders:

Total Depth: 19911

Ground Elevation: 1153

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

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)
H. SEE MEMO

PERMIT NO: 19-36773

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 15 Twp 6N Rge 5W County GRADY

Spot Location of End Point: NE NW NW NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 2178

Depth of Deviation: 11769

Radius of Turn: 487

Direction: 355

Total Length: 7376

Measured Total Depth: 19911

True Vertical Depth: 12351

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

Notes:

Category

Description

DEEP SURFACE CASING

7/11/2019 - 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

7/11/2019 - 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: OCCWEB.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

10/1/2019 - GB1 - 22-6N-5W
X590519 WDFD
9 WELLS
CONTINENTAL RESOURCES, INC
9/19/2019

MEMO

7/11/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201903619

7/30/2019 - GB1 - (I.O.)(640) 15-6N-5W
EXT 626437 WDFD
REC. 8/5/2019 (M. PORTER)

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

051 24686 GALVIN 5-22-15XHW

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.

PENDING CD - 201903620	7/30/2019 - GB1 - 15-6N-5W X201903619 WDFD 4 WELLS CONTINENTAL RESOURCES, INC REC. 8/5/2019 (M. PORTER)
PENDING CD - 201903669	7/30/2019 - GB1 - (I.O.) 15 & 22-6N-5W EST MULTIUNIT HORIZONTAL WELL X201903619 WDFD 15-6N-5W X147146 MSSP, HNTN 15 & 22-6N-5W X590519 WDFD 22-6N-5W (MSSP, HNTN ADJACENT COMMON SOURCES OF SUPPLY TO WDFD) 33% 22-6N-5W 67% 15-6N-5W CONTINENTAL RESOURCES, INC REC. 8/5/2019 (M. PORTER)
PENDING CD - 201903670	7/30/2019 - GB1 - (I.O.) 15 & 22-6N-5W X201903619 WDFD 15-6N-5W X147146 MSSP, HNTN 15 & 22-6N-5W X590519 WDFD 22-6N-5W COMPL. INT. (22-6N-5W) NCT 150' FSL, NCT 0' FNL, NCT 1320' FEL COMPL. INT. (15-6N-5W) NCT 0' FSL, NCT 150' FNL, NCT 1320' FEL CONTINENTAL RESOURCES, INC REC. 8/5/2019 (M. PORTER)
SPACING - 147146	7/30/2019 - GB1 - (640) 15 & 22-06N-05W EXT 131103 HNTN, OTHERS EST MSSP, OTHERS
SPACING - 590519	7/30/2019 - GB1 - (640) 22-6N-5W EXT OTHER EXT 587940 WDFD, OTHERS

EXHIBIT: A (2 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 3-22-27XHWCounty GRADY State OKWell: GALVIN 5-22-15XHWOperator CONTINENTAL RESOURCES, INC.

NAD-27

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W3	SPARKS 3-22-27XHW	597875	2086488	34° 58' 33.20" -97° 42' 40.70"	34.975888 -97.711306	1638' FSL / 1744' FEL (SE/4 SEC 22)	1120.28'	1123.18'
LP-3	LANDING POINT	597875	2086252	34° 58' 33.20" -97° 42' 43.54"	34.975888 -97.712094	1638' FSL / 1980' FEL (SE/4 SEC 22)	--	--
BHL-3	BOTTOM HOLE LOCATION	590998	2086261	34° 57' 25.18" -97° 42' 43.66"	34.956893 -97.712129	50' FSL / 1980' FEL (SE/4 SEC 27)	--	--
W5	GALVIN 5-22-15XHW	597905	2086488	34° 58' 33.49" -97° 42' 40.70"	34.975970 -97.711306	1668' FSL / 1744' FEL (SE/4 SEC 22)	1121.61'	1123.18'
LP-5	LANDING POINT	597905	2086054	34° 58' 33.50" -97° 42' 45.92"	34.975972 -97.712754	1668' FSL / 2178' FEL (SE/4 SEC 22)	--	--
BHL-5	BOTTOM HOLE LOCATION	606763	2086029	35° 00' 01.12" -97° 42' 45.92"	35.000310 -97.712754	50' FNL / 2178' FEL (NE/4 SEC 15)	--	--
X-1	GOOD #1	604460	2086884	34° 59' 38.31" -97° 42' 35.71"	34.993975 -97.709920	15-6N-5W: TD: 13,850' 2,352' FNL / 1,331' FEL	--	--
X-2	SPIVEY #1-15	603057	2083743	34° 59' 24.52" -97° 43' 13.51"	34.990145 -97.720420	15-6N-5W: TD: 13,778' 1,529' FSL / 829' FWL	--	--
X-3	GOOD MARTIN #5-10-3XH	606513	2085668	34° 59' 58.65" -97° 42' 47.86"	34.999625 -97.713295	15-6N-5W: TD: 20,041' 300' FNL / 2,340' FEL	--	--
X-4	GOOD MARTIN #3-10-3XH	606515	2084529	34° 59' 58.71" -97° 43' 03.96"	34.999642 -97.717765	15-6N-5W: TD: 17,821' 300' FNL / 1,620' FWL	--	--
X-5	GOOD MARTIN #1-10-3XH	606518	2083209	34° 59' 58.77" -97° 43' 19.82"	34.999659 -97.722173	15-6N-5W: TD: 20,102' 300' FNL / 300' FWL	--	--
X-6	GOOD MARTIN #4-10-3XH	606515	2084574	34° 59' 58.71" -97° 43' 03.41"	34.999642 -97.717615	15-6N-5W: TD: 20,268' 300' FNL / 1,665' FWL	--	--
X-7	GOOD MARTIN #2-10-3XH	606518	2083254	34° 59' 58.77" -97° 43' 19.28"	34.999658 -97.722022	15-6N-5W: TD: 20,242' 300' FNL / 345' FWL	--	--
X-8	GOOD MARTIN #6-10-3XH	606513	2085913	34° 59' 58.65" -97° 42' 47.32"	34.999625 -97.713144	15-6N-5W: TD: 20,170' 300' FNL / 2,295' FEL	--	--
X-9	PAYNE #1-22	600128	2086694	34° 58' 55.47" -97° 42' 38.15"	34.982076 -97.710598	22-6N-5W: TD: 13,750' 1,400' FNL / 1,534' FEL	--	--
X-10	GRIBI #1-22	598054	2084237	34° 58' 35.03" -97° 43' 07.75"	34.976397 -97.718818	22-6N-5W: TD: 12,990' 1,820' FSL / 1,320' FWL	--	--
X-11	GALVIN #1-22-27XH	601228	2083367	34° 59' 08.44" -97° 43' 18.10"	34.985123 -97.721693	22-6N-5W: TD: 19,635' 300' FNL / 450' FWL	--	--
X-12	SPARKS #1-27H	591140	2083733	34° 57' 26.66" -97° 43' 14.04"	34.957404 -97.720566	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

CURRENT REV.: 3

EXHIBIT: A (4 of 4)

SHEET: 8.5x14

SHL: 22-6N-5W

BHL-5 15-6N-5W

PETRO LAND SERVICES SOUTH, LLC

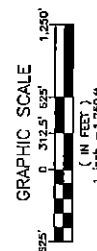
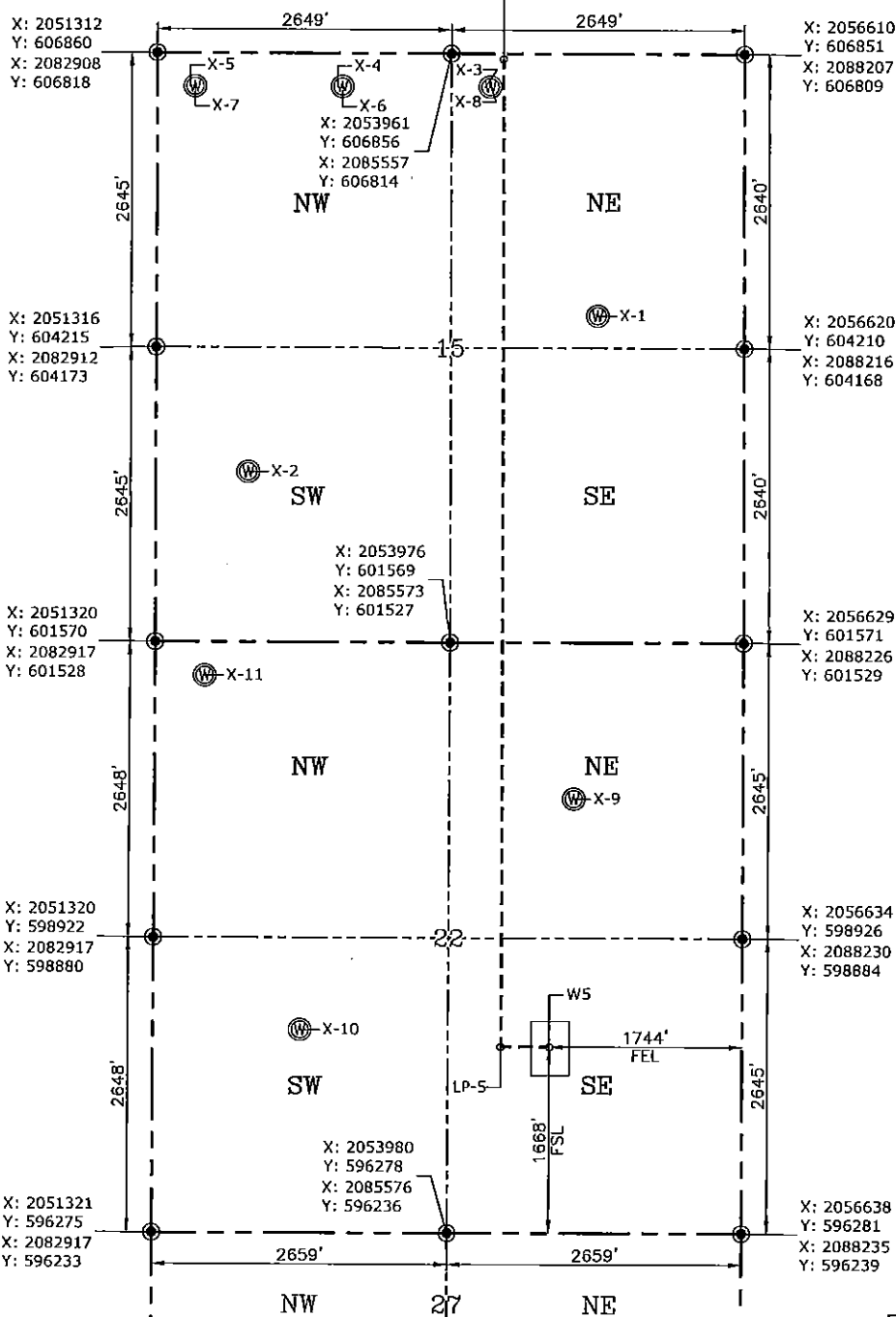
10400 VINEYARD BLVD, SUITE C, OKLA. CITY, OKLA. 73120 * OFFICE (405) 212-3108
Certificate of Authorization No. 7318CONTINENTAL
RESOURCES, INC
(OPERATOR)

GRADY

County Oklahoma

1668' FSL-1744' FEL Section 22 Township 6N Range SW I.M.

WELL: GALVIN 5-22-15XHW

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.

Oklahoma PLS No.1196 DATE