OKLAHOMA CORPORATION COMMISSION **OIL & GAS CONSERVATION DIVISION** P.O. BOX 52000 **OKLAHOMA CITY, OK 73152-2000**

(Rule 165:10-3-1)

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

3186 0

API NUMBER: 051 24686

Horizontal Hole Multi Unit

Amend reason: CHANGE WELL NUMBER; CHANGE SHL & BHL UPDATE ORDERS, BTW & FORMATION DEPTHS; ADD SECTION 27 TO MU

Oil & Gas

В

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 27 Twp: 6N Rge: 5W County: GRADY NW FEET FROM QUARTER: SPOT LOCATION: NW NE SE SOUTH EAST FROM 2385 1805

5-27-22-15XHW Lease Name: GALVIN Well No: Well will be 1805 feet from nearest unit or lease boundary.

Telephone: 4052349020; 4052349

Operator CONTINENTAL RESOURCES INC

CONTINENTAL RESOURCES INC

PO BOX 269000

OKLAHOMA CITY. OK 73126-9000 COMMISSIONERS OF THE LAND OFFICE STATE OF

OTC/OCC Number:

OKLAHOMA

P.O. BOX 26910

OKLAHOMA CITY OK 73126

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

Name Depth Name Depth MISSISSIPPIAN 1 12110 6 2 WOODFORD 12489 7 HUNTON 12600 8 3 9 10 147146 Spacing Orders: Location Exception Orders: Increased Density Orders: 702496 590519 702805 106361 595406

Pending CD Numbers: Special Orders: 201903619

> 201905036 201905046 201903620

Total Depth: 25690 Ground Elevation: 1109 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 270

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

Approved Method for disposal of Drilling Fluids: PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 19-36773 H. SEE MEMO

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?

Wellhead Protection Area?

located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is ALLUVIAL

Pit Location Formation: ALLUVIUM

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 ALLUVIAL

Pit Location Formation: ALLUVIUM

HORIZONTAL HOLE 1

Rge 5W Sec 15 Twp 6N County **GRADY** Spot Location of End Point: ΝE NW NW NF Feet From: NORTH 1/4 Section Line: 50 Feet From: EAST 1/4 Section Line: 2178

Depth of Deviation: 11769
Radius of Turn: 477
Direction: 355

Total Length: 13172

Measured Total Depth: 25690
True Vertical Depth: 12651
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:

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 10/1/2019 - GB1 - 22-6N-5W

X590519 WDFD 9 WELLS NO OP. NAMED 9/19/2019

INCREASED DENSITY - 702805 10/21/2019 - GB1 - 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.

MEMO 7/11/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS (REQUIRED - LAFLIN CREEK), 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)

PENDING CD - 201903620 7/30/2019 - GB1 - 15-6N-5W

X201903619 WDFD

4 WELLS NO OP. NAMED

REC. 8/5/2019 (M. PORTER)

PENDING CD - 201905036 10/21/2019 - GB1 - (I.O.) 15, 22 & 27-6N-5W

EST MULTIUNIT HORIZONTAL WELL X595406 MSSP, WDFD 27-6N-5W

X106361 HNTN 27-6N-5W

X147146 MSSP, HNTN 15 & 22-6N-5W

X590519 WDFD 22-6N-5W X201903619 WDFD 15-6N-5W

(MSSP, HNTN ADJACENT COMMON SOURCES OF SUPPLY TO WDFD)

21% 27-6N-5W 40% 22-6N-5W 39% 15-6N-5W

CONTINENTAL RESOURCES, INC

REC. 10/28/2019 (MILLER)

PENDING CD - 201905046 10/21/2019 - GB1 - (I.O.) 15, 22 & 27-6N-5W

X595406 MSSP, WDFD 27-6N-5W X103361 HNTN 27-6N-5W *** X147146 MSSP, HNTN 15 & 22-6N-5W

X590519 WDFD 22-6N-5W X201903619 WDFD 15-6N-5W

X165:10-3-28(C)(2)(B) WDFD MAY BE CLOSER THAN 600' TO GOOD MARTIN 4-10-3XH, GOOD MARTIN 5-10-3XH, GOOD MARTIN 6-10-3XH; GALVIN 6-27-22-15XHW, SPARKS 3-22-27-34XHW

COMPL. INT. (27-6N-5W) NCT 1320' FSL, NCT 0' FNL, NCT 1320' FEL COMPL. INT. (22-6N-5W) NCT 0' 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. 10/28/2019 (MILLER)

*** S/B 106361; WILL CORRECTED AT HEARING PER ATTORNEY

SPACING - 106361 10/21/2019 - GB1 - (640) 27-6N-5W

EST HNTN, OTHERS

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

SPACING - 595406 10/21/2019 - GB1 - (640) 27-6N-5W

EXT 167964/VAR/190352 MSSP, WDFD, OTHERS

WATERSHED STRUCTURE 10/21/2019 - GB1 - WELL WITHIN 1/2 MILE OF AN OKLAHOMA CONSERVATION COMMISSION

WATERSHED STRUCTURE. CONTACT THE LOCAL CONSERVATION DISTRICT OFFICE AT (405)

224-0523 PRIOR TO DRILLING

EXHIBIT: A (1 of 4)

SHEET: 8.5x14

SHL:

27-6N-5W 15-6N-5W

BHL-5 8HL-6

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 27 Township 6N Range 5W I.M. Well: GALVIN 5-27-22-15XHW Well: ____State OK Well: GALVIN 6-27-22-15XHW County _____ GRADY

Operator CONTINENTAL RESOURCES, INC.

		NAD	-83	_				
POINT	WELL NAME	NORTHING	EASTING	LONGITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
₩5	GALVIN 5-27-22-15XHW	593375	2054837	34° 57° 48,52° -97° 42° 42.65°	34.983478 -97,711848	2385' FSL / 1805' FEL (SE/4 SEC 27)	1115.44	1108.72
LP-5	LANDING PORT	593999	2054661	34° 57° 54.69° -97° 42° 44.74°	34.955192 -97.712429	2280' FNL / 1980' FEL (NE/4 SEC 27)		
PI~5	POINT OF INTERSECT	598279	2054457	34' 58' 37.03" -97' 42' 47.05"	34,978953 -97.713089	2000' 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)		
₩8	GALVIN 6-27-22-15XHW	593376	2055137	34' 57' 48.52" -97' 42' 39.05"	34.963478 -97,710847	2385' FSL / 1505' FEL (SE/4 SEC 27)	1103.73	1108.72
LP-8	LANDING POINT	594480	2055485	34° 57° 59.43° -97° 42° 34.82°	34.958508 -97.709872	1800' FNL / 1155' FEL (NE/4 SEC 27)		
P1-5	POINT OF INTERSECT	598280	2055381	34' 55' 37.02" -97' 42' 35.94"	34.976949 -97.709984	2000' FSL / 1254' FEL (SE/4 SEC 22)		
BHL-6	BOTTOW HOLE LOCATION	608803	2055356	35 00' 01,32" -97 42' 35.95"	35.000367 -97.709985	50' FNL / 1254' FEL (NE/4 SEC 15)		
X~I	6000 #1	604502	2055288	34" 59" 38,58" -97" 42" 38,85"	34.994044 -97,710235	15-6N-5W; TD: 13,850' 2,352' FNL / 1,331' FEL		
X-2	SPINEY #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	COOD WARTIN #5-10-3XH	608555	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 69 68.96 -97 43 03.09	34.999711 -97.718081	15-6N-5W: TD: 17,821' 300' FNL / 1,820' FWL		
X-5	GOOD MARTIN ∮1-10-3XH	606560	2051612	34' 59' 59.02" -97' 43' 20.96"	34.999727 -97.722489	15-6N-5W: TD: 20,102" 300" FNL / 300" FWL	T	
X-8	GOOD WARTIN #4~10-3XH	608557	2052977	34" 59" 58.95" -97" 43" 04.55"	34,999710 -97,717931	15-6N-5W; TD: 20,268' 300' FNL / 1,665' FWL		
X-7	GOOD MARTIN	806560	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	G000 MARTIN #6-10-3XH	606555	2054316	34' 59' 58.90" -97' 42' 48.46"	34.999693 -97.713460	15-6H-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	598098	2052640	34" 55" 35,28" -97" 43" 08.56"	34.978486 -97.719134	22-6N-5W: TD: 12,990' 1,820' FSL / 1,320' FWL		
X-11	GALVIN	601270	2051770	34' 59' 06.69" -97' 43' 19.23"	34.955191 -97,722009	22-6N-5W: TD: 19,835' 300' FNL / 450' FWL		
X-12	SPARKS #1-27H	591182	2052138	34' 57' 28,90" -97' 43' 15,17"	34.957474 -97,720881	27-6N-5W: TD: 17.443' 200' FSL / 800' FWL	 	

Certificate of Authorization No. 7318



Prepared By: Petro Land Services South 10400 Vineyard Blyd. Sulte C Oklahomo City, OK 73120

	R E	REVISIONS								
	No.	DATE	STAKED	ВҮ	DESCRIPTION	COMMENTS				
	00	6-21-19	7-16-19	TJW	ISSUED FOR APPROVAL					
	01	8-1-19	8619	HDG	MOVED PAD SOUTH	REV'D ALL EXHIBITS				
	02	8-8-19	B~5~19	HDG	REY'D ACCESS & FACILITIES	REV'D EXHIBITS B.F.G.H.I & A				
	03	9-23-19	9-24-19	TJW	rev'd shl's	REV'D EXS. A1,A2,B,C,O,E,F,H,I & A				
d	04	10-11-19	44-44-19	HDG.	MOVEO PAD SOUTH	REV'O ALL EXHIBITS				
	05	10-15-19	10-15-19	HDG	REV'D SHL'S	REV'D EXHIBITS A(1-4),B,F,G(1-2),H,1				
	06	10-16-19	**-**-19	HDG	EXTENDED PAD 50' EAST	REV'D EXHIBITS A(1-2),8,F,G(1-2),H,I				

EXHIBIT: <u>A (2 of 4)</u>

SHEET: 8.5x11

SHL:

27-6N-5W

BHL-5

15-6N-5W

BHL-6

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 27 Township 6N Range 5W I.M.

Well: GALVIN 5-27-22-15XHW

GRADY State OK County __

Well: <u>GALVIN 6-27-2</u>2-15XHW

Operator ___ CONTINENTAL RESOURCES, INC.

		NAD	-27					
POINT	WELL NAME	NORTHING	EASTING	LATTTUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
₩5	GALVIN 5-27-22-15XHW	593333	2086433	34" 57" 48,27" -97" 42" 41.52"	34.963409 -97.711533	2385' FSL / 1805' FEL (SE/4 SEC 27)	1115.44'	1108.72
LP-5	LANDING POINT	593957	2086257	34' 57' 54.44" -97' 42' 43.61"	34.965123 -97.712113	2280' FNL / 1980' FEL (NE/4 SEC 27)		1
PI-5	POINT OF INTERSECT	598237	2086053	34' 58' 36.78" -97' 42' 45.91"	34.976884 97.712753	2000' FSL / 2178' FEL (SE/4 SEC 22)		
9HL~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)		
W6	GALVIN 6-27-22-15XHW	593334	2086733	34° 57° 48.27° -97° 42° 37.91°	34.963409 97.710532	2385' FSL / 1505' FEL (SE/4 SEC 27)	1103.73'	1108.72
LP-6	LANDING POINT	594438	2087082	34' 57' 59.18" -97' 42' 33.69"	34.966438 -97.709357	1800' FNL / 1155' FEL (NE/4 SEC 27)	ļ	
PI-6	POINT OF INTERSECT	598238	2086977	34' 58' 36.77" -97' 42' 34.81"	34.976880 -97.709669	2000' FSL / 1254' FEL (SE/4 SEC 22)		
BHL-6	BOTTOM HOLE LOCATION	608781	2086953	35° 00′ 01,07° -97° 42′ 34.81°	35.000299 -97.709869	50' FNL / 1254' FEL (NE/4 SEC 15)		
X-1	GOOD #1	504460	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	2085866	34" 59" 58,65" -97" 42" 47,86"	34.999625 -97.713295	156N5W: 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		
X5	GOOD MARTIN ∦1103XH	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-8	GODD MARTIN #4-10-3XH	606515	2084574	34' 59' 58.71" -97' 43' 03.41"	34.999642 -97.717615	15-6N-5W: TD: 20,26B' 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' 06.44" ~97' 43' 18.10"	34.985123 -97.721693	22-6N-5W: TD: 19,635' 300' FNL / 450' FWL		
X12	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



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

EXHIBIT: A (3 of 4)

PETRO LAND SERVICES SOUTH, LLC

10408 VINEYARD BLVD, SUITE C, OKLA, CTFY, OKLA, 73120 * OFFICE (405) 212-3108
Certificate of Authorization No. 7318

Continental

SHEET: <u>8.5x14</u> SHL: <u>27-6N-5W</u>

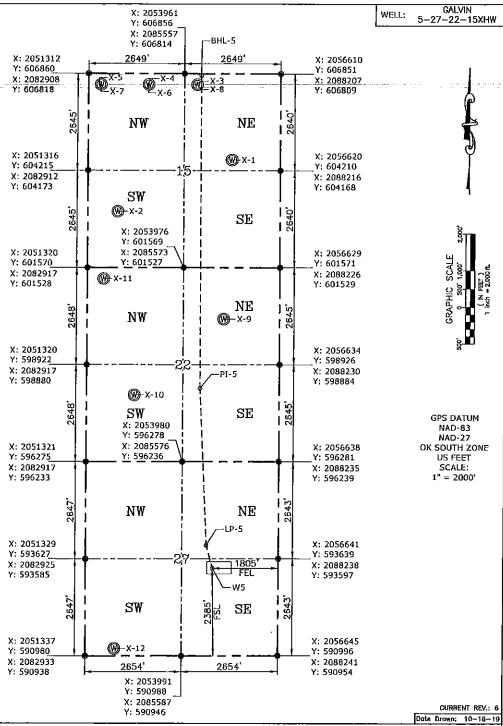
AHI-5

15-6N-5W

 GRADY
 County Oklahoma

 2385' FSL-1805' FEL Section
 27 Township
 6N Range
 5W I.M.

CONTINENTAL RESOURCES,INC (OPERATOR)



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, TYLER J. WILLIS, an Oklahoma Licensed Land Surveyor and an authorized agent of Petro Land Services South, LLC, do hereby certify to the information shown herein.

