## API NUMBER: 051 24730 A

Oil & Gas

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

Approval Date: 10/23/2019
Expiration Date: 04/23/2021

API NUMBER: 051 24/30 A

Horizontal Hole Multi Unit

Amend reason: AMEND SHL & UPDATE ORDERS

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: CHICKASHA

#### AMEND PERMIT TO DRILL

WELL LOCATION: Sec:	16 Twp: 7N Rge	: 5W	County: GRA	DY				
SPOT LOCATION: NW	NE SE NW		•	NORTH FROM	WEST			
		SECTION LINE	S:	1630	1985			
Lease Name: EMERY	•		Well No:	3-16-9XHW		Well will be	1630 feet from near	est unit or lease boundary.
Operator CON Name:	NTINENTAL RESOURCES	INC		Telephone: 4	052349020; 4052349		OTC/OCC Number:	3186 0
CONTINENTAL PO BOX 26900 OKLAHOMA CI		73126-9	000		PO BOX 93	33	KS REV TRUST	
					BLANCHAI	אט	OK 7	73010
Formation(s) (Pe	ermit Valid for Listed		Only): epth		Name		Dep	<del>t</del> h
1 WOODF	-ORD		1489	6			Бер	ui
2	OND	'	1400	7				
3				8				
4				ę	)			
5				•	10			
Spacing Orders: 64420 65326		Lo	cation Exception	Orders:		Incr	reased Density Orders:	
Pending CD Numbers:	201904912					Spe	cial Orders:	
	201904913							
	201904916							
	201904917							
Total Depth: 20205	Ground Elevation	n: 1214	Surface	Casing: 1500		Depth	to base of Treatable Wate	er-Bearing FM: 360
Under Federal Jurisdic	Under Federal Jurisdiction: No			r Supply Well Drilled	: No	Surface Water used to Drill: Yes		
PIT 1 INFORMATION				Ap	proved Method for di	sposal of Drillin	ng Fluids:	
Type of Pit System: CL	OSED Closed System Me	ans Steel Pits						
Type of Mud System: V				One time land appli	cation (REQI	UIRES PERMIT)	PERMIT NO: 19-36753	
Chlorides Max: 5000 Av		H	I. SEE MEMO					
Is depth to top of ground	water greater than 10ft belo	ow base of pit?	Y	_				
Within 1 mile of municipa								
Wellhead Protection Area								
	Hydrologically Sensitive Ar	ea.						
Category of Pit: C								

#### 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: CHICKASHA

#### **HORIZONTAL HOLE 1**

Rge 5W Sec 09 Twp 7N County **GRADY** Spot Location of End Point: NW NF ΝE NW Feet From: NORTH 1/4 Section Line: 50 Feet From: WEST 1/4 Section Line: 2090

Depth of Deviation: 11053 Radius of Turn: 488

Direction: 5

Total Length: 8386

Measured Total Depth: 20205

True Vertical Depth: 11489

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

Notes:

Category Description

DEEP SURFACE CASING 10/15/2019 - 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 10/15/2019 - 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 - 704972 11/19/2019 - GC2 - 16-7N-5W

X644200 WDFD 6 WELLS NO OP. NAMED 11-7-2019

INCREASED DENSITY - 704973 11/19/2019 - GC2 - 9-7N-5W

X653269 WDFD 3 WELLS NO OP. NAMED 11-7-2019 MEMO 10/15/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS (REQUIRED - WINTER CREEK

WATERSHED), PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201904916 10/21/2019 - GC2 - (I.O.) 16 & 9-7N-5W

EST MULTIUNIT HÖRIZONTAL WELL

X644200 WDFD 16-7N-5W X653269 WDFD 9-7N-5W

33% 16-7N-5W 67% 9-7N-5W

CONTINENTAL RESOURCES, INC REC. 10-21-2019 (P. PORTER)

PENDING CD - 201904917 10/21/2019 - GC2 - (I.O.) 16 & 9-7N-5W

X644200 WDFD 16-7N-5W X653269 WDFD 9-7N-5W

X165:10-3-28(C)(2)(B) WDFD MAY BE CLOSER THAN 600' TO EXISTING AND/OR PROPOSED

WELL

COMPL. INT. (16-7N-5W) NCT 1,320' FSL, NCT 0' FNL, NCT 1,320' FWL

COMPL. INT. (9-7N-5W) NCT 0' FSL, NCT 150' FNL, NCT 1,320' FWL CONTINENTAL RESOURCES,

INC

REC. 10-21-2019 (P. PORTER)

SPACING - 644200 10/21/2019 - GC2 - (640)(HOR) 16-7N-5W

EXT (VER) OTHERS EST (VER) OTHERS EST (HOR) WDFD, OTHER VAC OTHERS COMPL. INT. NCT 330' FB

SPACING - 653269 10/21/2019 - GC2 - (640)(HOR) 9-7N-5W

EXT 643068 WDFD, OTHERS

**EXT OTHER** 

COMPL. INT. NCT 165' FNL/FSL, NCT 330' FEL/FWL

EXHIBIT: A (1 of 4)

SHEET: 8.5x11

SHL:

<u>16-7N-5W</u>

BHL-E3 <u>9-7N-5</u>W

BHL-M3 21-7N-5W



# COVER SHEET

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

Section 16 Township 7N Range 5W I.M.

EMERY 3-16-9XHW Well: \_\_\_\_

GRADY State OK County \_\_\_\_

MILLS 3-16-21XHW Well: \_\_

CONTINENTAL RESOURCES, INC. Operator

						_		
		NAD-	-83					
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
₩-E3	EMERY 3-16-9XHW	636951	2047939	35' 04' 59.72" -97' 44' 04.15"	35.083255 -97.734486	1630' FNL / 1985' FWL (NW/4 SEC 16)	1211.66*	1214.09'
LP-E3	LANDING POINT	636952	2048044	35' 04' 59.72" -97' 44' 02.89"	35.083255 -97.734135	1630' FNL / 2090' FWL (NW/4 SEC 16)		
BHL-E3	BOTTOM HOLE LOCATION	643812	2048017	35' 06' 07.57" -97" 44' 02.99"	35.102103 -97.734163	50' FNL / 2090' FWL (NW/4 SEC 09)		
W-M3	MILLS 3-18-21XHW	636921	2047939	35" 04" 59.42" -97" 44" 04.15"	35.083172 -97.734486	1660' FNL / 1985' FWL (NW/4 SEC 16)	1211.83	1214.09
LP~M3	LANDING POINT	636921	2047901	35' 04' 59,42" -97" 44' 04.61"	35.083172 -97.734613	1660' FNL / 1947' FWL (NW/4 SEC 16)		
PI-1	POINT OF INTERSECT	635940	2047816	35° 04° 49.72° -97° 44° 05.67°	35.080477 -97.734907	2641' FNL / 1861' FWL (NW/4 SEC 16)		
PI-2	POINT OF INTERSECT	633300	2047924	35' 04' 23.60" -97' 44' 04.45"	35.073222 -97.734569	0' FSL / 1964' FWL (SW/4 SEC 16)		
BHLM3	BOTTOM HOLE LOCATION	628068	2048155	35' 03' 31.83" -97' 44' 01.83"	35,058842 -97,733842	50' FSL / 2196' FWL (SW/4 SEC 21)		
X-1	VIERSEN #1-9	642358	2049699	35' 05' 53.13" -97' 43' 42.80"	35.098092 -97.725556	9-7N-5W:   TD: 12,285'   1,509' FNL / 1,509' FEL		
X-2	EMERY #1-9-16XH	643483	2050824	35' 05' 04.24" -97' 43' 29.22"	35.101179 -97.724783	9-7N-5W:   TD: 6,759'   385' FNL / 382' FEL		
X-3	MIDDLEBERG SWD #1	640333	2047785	35' 05' 33.17" -97' 44' 05.90"	35.092547 -97.734972	9-7N-5W:   TD: 8,050'   1,752' FSL / 1,840' FWL		
X-4	RICKS #7-5-4-1H	642901	2047802	35' 05' 58.57" -97' 44' 05.61"	35,099603 -97,734892	9-7N-5W:   TD: 17,012'   960' FNL / 1,870' FWL		
X-5	MILLS #1-21H	628272	2046949	35' 03' 33.90" -97' 44' 16.33"	35.059416 -97,737870	21-7N-5W:   T0: 18,400'   255' FSL / 990' FWL		
X-6	STRASSLE #1-28-33XH	628634	2046889	35' 03' 37,46" -97' 44' 17,04"	35.060411 -97.738067	21-7N-5W:   TD: 17.873'   617' FSL / 930' FWL		
X-7	EMERY #1R-9-16XH	643450	2050794	35' 06' 03,92" -97' 43' 29.58"	35.101088 -97.724883	9-7N-5W:   TD: 21,281'   418' FNL / 412' FEL		

Certificate of Authorization No. 7318

Date Staked: 08-02-19 Date Drawn: 11-13-19



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

RE	REVISIONS								
No.	DATE	BY	DESCRIPTION	COMMENTS					
00	06-18-19	TJW	ISSUED FOR APPROVAL	F					
01	07-30-19	MſŢ	MOVED PAD NORTH	REV'D ALL EXHIBITS					
02	10719	HDG	REV'D ACCESS ROAD	REV'D EXHIBIT F,G & "A"					
03	11-13-19	HDG	REV'D MILLS 3 BHL/ADDED PI	REV'D EXHIBIT A1, A2 & A3					

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

SHEET: 8.5x11

SHL:

<u>16-</u>7N-5W

BHL-E3 9-7N-5W

BHL-M3 21-7N-5W



# COVER SHEET CONTINUED...

# CONTINENTAL RESOURCES, INC.

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

Section	16 Township	7NRange	<u>5W</u> I.M.	Well:	EMERY 3-16-9XHW
	GRADY	State	OK	Well:	MILLS 3-16-21XHW
Country	0.17101			weii:	

Operator \_\_\_\_\_CONTINENTAL RESOURCES, INC.

	<u> </u>	NAD-	-27					
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W-E3	EMERY 3-16-9XHW	636909	2079536	35' 04' 59.48" -97' 44' 03.01"	35.083188 -97.734168	1630' FNL / 1985' FWL (NW/4 SEC 16)	1211.68	1214.09'
LP-E3	LANDING POINT	636909	2079641	35' 04' 59.48' -97' 44' 01.74"	35.083188 -97.733818	1630' FNL / 2090' FWL (NW/4 SEC 16)		
BHL-E3	BOTTOM HOLE LOCATION	643769	2079614	35° 06° 07.33° -97° 44° 01.84°	35.102037 -97.733846	50' FNL / 2090' FWL (NW/4 SEC 09)		
W-M3	MILLS 3-16-21XHW	636879	2079536	35' 04' 59.18" -97' 44' 03.01"	35.083108 -97,734169	1860' FNL / 1985' FWL (NW/4 SEC 16)	1211.83'	1214.09'
LP-M3	LANDING POINT	636879	2079498	35' 04' 59.18" -97' 44' 03.46"	35.083106 -97.734296	1660' FNL / 1947' FWL (NW/4 SEC 16)		
PI-1	POINT OF INTERSECT	635898	2079412	35' 04' 49.48" -97' 44' 04.52"	35.080410 -97.734590	2641' FNL / 1861' FWL (NW/4 SEC 16)		
PI-2	POINT OF INTERSECT	633258	2079521	35° 04' 23.36" -97° 44' 03.31"	35.073156 -97.734251	0' FSL / 1964' FWL (SW/4 SEC 16)		
BHL-M3	BOTTOM HOLE LOCATION	628024	2079752	35° 03' 31.59" -97° 44" 00.69"	35.058774 -97.733525	50' FSL / 2196' FWL (SW/4 SEC 21)		
X-1	VIERSEN #1-9	642314	2081295	35' 05' 52.89" -97' 43' 41.66"	35.098026 -97,728239	9-7N-5W:   TD: 12,285'   1,509' FNL / 1,509' FEL		
X-2	EMERY <b>#</b> 1-9-16XH	643441	2082421	35° 06° 04.00° -97° 43° 28.08°	35.101112 -97.724466	9-7N-5W:   TD: 6,759'   385' FNL / 382' FEL		
X-3	MIDDLEBERG SWD #1	640291	2079382	35' 05' 32.93" -97' 44' 04.76"	35.092481 -97.734654	9-7N-5W:   TD: 8,050'   1,752' FSL / 1,840' FWL	<b>-</b>	
X-4	RICKS #7-5-4-1H	642859	2079399	35° 05' 58.33" -97' 44' 04.47"	35.099537 -97.734574	9-7N-5W:   TD: 17,012'   960' FNL / 1,870' FWL		
X-5	MILLS #1-21H	628230	2078546	35' 03' 33.66" -97' 44' 15.19"	35.059349 -97.737552	21-7N-5W:   TD: 16,400'   255' FSL / 990' FWL		
X-6	STRASSLE #1-28-33XH	626592	2076486	35' 03' 37.24" -97' 44' 15.90"	35.080344 -97.737749	21-7N-5W:   TD: 17,873'   617' FSL / 930' FWL		
X-7	EMERY #1R-9-16XH	643407	2082391	35' 06' 03.68" -97' 43' 28.44"	35,101022 -97,724566	9-7N-5W:   TD: 21,281°   418° FNL / 412° FEL		

Certificate of Authorization No. 7318

Date Staked: 08-02-19 Date Drown: 11-13-19



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

EXHIBIT: A (3 of 4)

BHL-E3 9-7N-5W

SHEET:

\_\_\_ 8.5x14

16-7N-5W

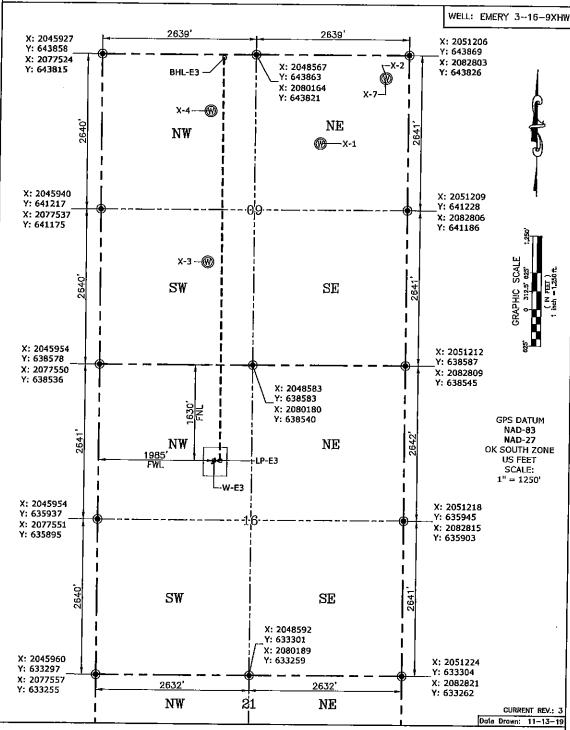
### PETRO LAND SERVICES SOUTH, LLC

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

GRADY 1630' FNL-1985' FWL Section 16 Township

County Oklahoma 7N Range \_\_5W \_I.M. Continental

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.

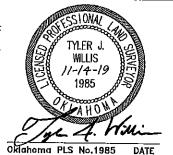


EXHIBIT: A (4 of 4) 8.5x14

PETRO LAND SERVICES SOUTH, LLC
10400 VINEYARD BLVD. SUITE C, OKIA. CITY, OKIA. 73120 \* OFFICE (405) 212-3108
Certificate of Authorization No. 7318

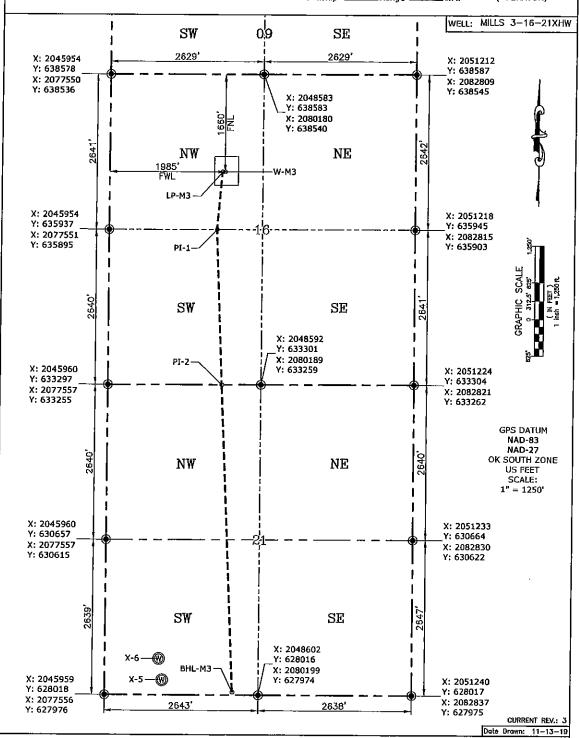
Continental 🏻

SHEET:

16-7N-5W BHL-M3 21-7N-5W

GRADY \_ County Oklahoma 1660' FNL-1985' FWL Section 16 Township

CONTINENTAL RESOURCES, INC 7N Range \_ 5W I.M. (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.

