API NUMBER: 011 24199 **OKLAHOMA CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION** P.O. BOX 52000 **OKLAHOMA CITY, OK 73152-2000** (Rule 165:10-3-1)

03/25/2019 Approval Date: Expiration Date: 09/25/2020

Horizontal Hole Multi Unit

Category of Pit: C

Liner not required for Category: C Pit Location is BED AQUIFER Pit Location Formation:

RUSH SPRINGS

Oil & Gas

		PERMIT TO DRILL		
WELL LOCATION: Sec: 02 Twp: 16N Rg	ge: 13W County: BLA	INE		
SPOT LOCATION: NW NE NE N		NORTH FROM WEST		
	SECTION LINES:	300 2260		
Lease Name: KNUTSON	Well No:	2-2-11XHM	Well will be 300	feet from nearest unit or lease boundary.
Operator CONTINENTAL RESOURCE Name:	S INC	Telephone: 4052349020;	4052349 OTC	OCC Number: 3186 0
CONTINENTAL RESOURCES INC PO BOX 269000	;	GE	RALD L. KNUTSON	
OKLAHOMA CITY, O	K 73126-9000	14916 TOMASHA DRIVE		
OREATIONIA CITT,	73120-9000	IND	EPENDENCE	MO 64055
Formation(s) (Permit Valid for Lister Name  1 MISSISSIPPIAN 2 3 4	d Formations Only):  Depth  10583	6 7 8 9	me	Depth
5		10		
Spacing Orders: No Spacing	Location Exception	n Orders:	Increase	d Density Orders:
Pending CD Numbers: 201900529 201900528 201900527 201900526 201900532 201900533			Special (	Orders:
Total Depth: 20644 Ground Elevati	on: 1673 Surface	Casing: 220	Depth to base	of Treatable Water-Bearing FM: 120
Under Federal Jurisdiction: No	Fresh Wate	er Supply Well Drilled: No		Surface Water used to Drill: Yes
PIT 1 INFORMATION		Approved Me	hod for disposal of Drilling Fluid	s:
Type of Pit System: CLOSED Closed System M	leans Steel Pits			
Type of Mud System: WATER BASED			land application (REQUIRES	PERMIT NO: 19-36256
Chlorides Max: 8000 Average: 5000  Is depth to top of ground water greater than 10ft be Within 1 mile of municipal water well? N  Wellhead Protection Area? N	elow base of pit? Y	H. SEE MEN		
Pit is located in a Hydrologically Sensitive A	rea.			

#### 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: RUSH SPRINGS

### **HORIZONTAL HOLE 1**

Sec 11 Twp 16N Rge 13W County BLAINE

Spot Location of End Point: S2 S2 S2 S2
Feet From: SOUTH 1/4 Section Line: 50
Feet From: WEST 1/4 Section Line: 2640

Depth of Deviation: 10179 Radius of Turn: 409 Direction: 178

Total Length: 9822

Measured Total Depth: 20644

True Vertical Depth: 11313

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

Notes:

Category Description

HYDRAULIC FRACTURING

INTERMEDIATE CASING

3/1/2019 - 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 3/1/2019 - G71 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-

3/1/2019 - G71 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE

MORROW SERIES

MEMO 3/1/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 -

OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201900526 3/18/2019 - GB1 - 11-16N-13W

X201900528 MSSP 2 WELLS NO OP. NAMED

REC. 3/15/2019 (DENTON)

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.

011 24199 KNUTSON 2-2-11XHM

Category Description

PENDING CD - 201900527 3/18/2019 - GB1 - 2-16N-13W

X201900529 MSSP

2 WELLS NO OP. NAMED

REC. 3/15/2019 (DENTON)

PENDING CD - 201900528 3/18/2019 - GB1 - (640) 11-16N-13W

VAC 87122 MISS VAC 159742 CSTR

EXT 668965 MSSP, OTHER REC 3/12/2019 (MINMIER)

PENDING CD - 201900529 3/18/2019 - GB1 - (640) 2-16N-13W

VAC 87122 MISS VAC 357576 CSTR EXT 593865 MSSP, OTHER REC 3/12/2019 (MINMIER)

PENDING CD - 201900532 3/18/2019 - GB1 - (I.O.) 2 & 11-16N-13W

EST MULTIUNIT HORIZONTAL WELL X201900529 MSSP 2-16N-13W X201900528 MSSP 11-16N-13W

50% 2-16N-13W 50% 11-16N-13W NO OP. NAMED

REC. 3/15/2019 (DENTON)

PENDING CD - 201900533 3/18/2019 - GB1 - (I.O.) 2 & 11-16N-13W

X201900529 MSSP 2-16N-13W X201900528 MSSP 11-16N-13W

SHL (2-16N-13W) 30' FNL, 2260' FWL \*\*\*

COMPL. INT. (2-16N-13W) NCT 150' FNL, NCT 0' FSL, NCT 1320' FWL COMPL. INT. (11-16N-13W) NCT 0' FNL, NCT 150' FSL, NCT 1320' FWL

NO OP. NAMÈD

REC. 3/15/2019 (DENTON)

\*\*\* ITD HAS SHL AS 300' FNL, 2260' FWL; TO BE CORRECTED AS HEARING FOR FINAL ORDER

PER ATTORNEY FOR OPERATOR

EXHIBIT: A (1 of 2)

SHEET:  $8.5 \times 11$ SHL: 2-16N-13WBHL-2 11-16N-13W



## COVER SHEET

### CONTINENTAL RESOURCES, INC.

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

Section	2	Township	16N	Range	13W	_ I.M.	,	Well:	KNUTSON $2-2-11XHM$

 County
 BLAINE
 State
 OK
 Well:
 ——

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

	NAD-83							
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W2	KNUTSON 2-2-11XHM	327346	1804544	35* 53' 52.72" -98* 33' 12.86"	35.897977 -98.553573	300' FNL / 2260' FWL (NW/4 SEC 2)	1672.88'	1673.48'
LP-2	LANDING POINT	327344	1804923	35° 53' 52.72" -98° 33' 08.25"	35.897977 -98.552291	300' FNL / 2640' FWL (NE/4 SEC 2)		
BHL-2	BOTTOM HOLE LOCATION	317246	1804904	35* 52' 12.85" -98* 33' 07.78"	35.870236 -98.552162	50' FSL / 2640' FWL (SW/4 SEC 11)		
X-1	CRAIN #1-11 (LEONA B CRAIN)	319380	1803966	35° 52' 33.90" -98° 33' 19.34"	35.876083 -98.555371	11-16N-13W   TD: 12,147'   2,170' FSL / 1,683' FWL		
X-2	SMOOT #1	320481	1805582	35* 52' 44.88" -98* 32' 59.78"	35.879133 -98.549938	11-16N-13W   TD: 9,810'   1,975' FNL / 1,969' FEL		
X-3	CRAIN #1-11	319558	1804084	35° 52' 35.67" -98° 33' 17.91"	35.876575 -98.554974	11-16N-13W   TD: 9,740'   2,350' FSL / 1,800' FWL		
X-4	CRAIN #11-2	320481	1803612	35* 52' 44.77" -98* 33' 23.71"	35.879103 -98.556586	11-16N-13W   TD: 9,685'   1,986' FNL / 1,320' FWL		
X-5	LEONA #1-11	319502	1804484	35* 52' 35.14" -98* 33' 13.05"	35.876428 -98.553625	11-16N-13W   TD: 9,532'   2,300' FSL / 2,200' FWL		

NAD-27								
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W2	KNUTSON 2-2-11XHM	327321	1836146	35° 53′ 52.56″ -98° 33′ 11.58″	35.897934 -98.553216	300' FNL / 2260' FWL (NW/4 SEC 2)	1672.88'	1673.48'
LP-2	LANDING POINT	327319	1836525	35° 53' 52.56" -98° 33' 06.96"	35.897934 -98.551934	300' FNL / 2640' FWL (NE/4 SEC 2)		
BHL-2	BOTTOM HOLE LOCATION	317221	1836506	35° 52' 12.69" -98° 33' 06.50"	35.870192 -98.551805	50' FSL / 2640' FWL (SW/4 SEC 11)		
X-1	CRAIN #1-11 (LEONA B CRAIN)	319355	1835567	35° 52' 33.74" -98° 33' 18.05"	35.876039 -98.555014	11-16N-13W   TD: 12,147'   2,170' FSL / 1,683' FWL		
X-2	SMOOT #1	320456	1837183	35° 52′ 44.72″ -98° 32′ 58.49″	35.879090 -98.549581	11-16N-13W   TD: 9,810'   1,975' FNL / 1,969' FEL		
X-3	CRAIN #1-11	319533	1835686	35° 52' 35.51" -98° 33' 16.62"	35.876531 -98.554618	11-16N-13W   TD: 9,740'   2,350' FSL / 1,800' FWL		
X-4	CRAIN #11-2	320456	1835214	35° 52' 44.61" -98° 33' 22.42"	35.879060 -98.556229	11-16N-13W   TD: 9,685'   1,986' FNL / 1,320' FWL		
X-5	LEONA #1-11	319477	1836085	35° 52' 34.98" -98° 33' 11.77"	35.876384 -98.553268	11-16N-13W   TD: 9,532'   2,300' FSL / 2,200' FWL		

Certificate of Authorization No. 7318

Date Staked: 12-7-18 Date Drawn: 12-6-18



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

R E	REVISIONS								
No.	DATE	BY	DESCRIPTION	COMMENTS					
00	12-6-18	HDG	ISSUED FOR APPROVAL						

# 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)

Continental

8.5x14 SHEET: 2-16N-13WSHL: 11-16N-13W BHL-2

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

BLAINE County Oklahoma 300' FNL-2260' FWL Section 16N\_Range \_\_13W\_ I.M. \_ Township

X: 1804907 WELL: KNUTSON 2-2-11XHM Y: 327644 300, FNL X: 1836509 Y: 327619 X: 1802282 2626' 2626' X: 1807533 Y: 327662 Y: 327627 X: 1833884 X: 1839135 2260' Y: 327637 Y: 327602 FWL W2 NE NW X: 1802295 X: 1807542 Y: 325118 Y: 325086 X: 1833897 X: 1839144 Y: 325093 Y: 325061 GRAPHIC SCALE 0 312.5' 625' 2643, SW SE X: 1804931 Y: 322459 X: 1836533 Y: 322434 X: 1802309 X: 1807552 Y: 322475 Y: 322443 X: 1833911 X: 1839154 Y: 322450 Y: 322419 GPS DATUM NAD-27 NW NE OK NORTH ZONE US FEET SCALE: 1" = 1250 ₩-X-4 **₩**-X-2 X: 1802287 X: 1807550 Y: 319855 Y: 319801 X: 1833888 X: 1839152 Y: 319830 Y: 319776 2643, 2621 SW SE BHL-2 X: 1802264 X: 1807548 Y: 317234 Y: 317158 X: 1833866 X: 1839150 X: 1804906 Y: 317209 Y: 317133 2642 Y: 317196 2642 X: 1836508 Y: 317171 CURRENT REV.: 0 Date Drawn: 12-6-18

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