API NUMBER: 011 24218

Pit Location is BED AQUIFER
Pit Location Formation: MARI

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: 06/04/2019
Expiration Date: 12/04/2020

Horizontal Hole Multi Unit

PERMIT TO DRILL

			1 LIXIII TO DIXI			
WELL LOCATION:	Sec: 33 Twp: 15N Rge: 12	County: BLAIN	NE			
SPOT LOCATION:	SE NE NW NE	FEET FROM QUARTER: FROM	NORTH FROM E	AST		
		SECTION LINES:	405 1	486		
Lease Name: A	NGUS TRUST	Well No:	5-33-4XHW	Well will b	e 405 feet from neare	st unit or lease boundary.
Operator Name:	CONTINENTAL RESOURCES INC		Telephone: 4052	349020; 4052349	OTC/OCC Number:	3186 0
CONTINEN	NTAL RESOURCES INC			JANE CRAWFORD,	TRUSTEE	
PO BOX 26	69000		3378 COYOTEEE RD. NE			
OKLAHOM	IA CITY, OK	73126-9000		PIEDMONT		3078
	(Permit Valid for Listed For ame ISSISSIPPI SOLID	rmations Only): Depth 12040	6	Name	Dept	h
	NDERHOOK	12497	7			
	OODFORD	12958	8			
4 5			9			
,	579753					
Spacing Orders.	579708	Location Exception	Orders:		Increased Density Orders:	
Pending CD Numbe	rs: 201901163 201901162 201901154 201901155				Special Orders:	
Total Depth: 225	Ground Elevation: 1	Surface (Casing: 1500	Dep	oth to base of Treatable Wate	r-Bearing FM: 130
Under Federal Ju	urisdiction: No	Fresh Water	Supply Well Drilled:	No	Surface Water	used to Drill: Yes
PIT 1 INFORMATION	ON		Appro	ved Method for disposal of Dri	illing Fluids:	
Type of Pit System	: CLOSED Closed System Means	Steel Pits				
	m: WATER BASED			ne time land application (RE	QUIRES PERMIT)	PERMIT NO: 19-36429
Chlorides Max: 800		and of pit?	H. S	EE MEMO		
	round water greater than 10ft below be unicipal water well? N	ase of pit? Y	_			
Wellhead Protectio						
	d in a Hydrologically Sensitive Area.					
Category of Pit:						
Liner not required	I for Category: 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: MARLOW

HORIZONTAL HOLE 1

Sec 04 Twp 14N Rge 12W County BLAINE

Spot Location of End Point: S2 S2 S2 SE
Feet From: SOUTH 1/4 Section Line: 50
Feet From: EAST 1/4 Section Line: 1320

Depth of Deviation: 12209
Radius of Turn: 477
Direction: 178
Total Length: 9626

Measured Total Depth: 22584

True Vertical Depth: 12958

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

Notes:

Category Description

DEEP SURFACE CASING 5/9/2019 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF

CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR

SURFACE CASING

HYDRAULIC FRACTURING 5/9/2019 - 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

INTERMEDIATE CASING 5/9/2019 - 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 5/9/2019 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 -

OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

Category Description PENDING CD - 201901154 5/17/2019 - G75 - 33-15N-12W X579753 WDFD 2 WELLS NO OP. NAMED HEARING 6-19-2019 PENDING CD - 201901155 5/17/2019 - G75 - 4-14N-12W X579708 WDFD 2 WELLS NO OP. NAMED HEARING 6-19-2019 PENDING CD - 201901162 5/17/2019 - G75 - (E.O.) 33-15N-12W & 4-14N-12W X579753 MSSSD, KDRK, WDFD 33-15N-12W X579708 MSSSD, KDRK, WDFD 4-14N-12W COMPL. INT. (33-15N-12W) NCT 150' FNL, NCT 0' FSL, NCT 660' FEL COMPL. INT. (4-14N-12W) NCT 0' FNL, NCT 150' FSL, NCT 660' FEL CONTINENTAL RESOURCES, INC. REC 6-4-2019 (NORRIS) PENDING CD - 201901163 5/17/2019 - G75 - (E.O.) 33-15N-12W & 4-14N-12W EST MULTIUNIT HORIZONTAL WELL X579753 MSSSD, KDRK, WDFD 33-15N-12W X579708 MSSSD, KDRK, WDFD 4-14N-12W (MSSSD, KDRK ADJACENT COMMON SOURCES OF SUPPLY TO WDFD) 50% 33-15N-12W 50% 4-14N-12W CONTINENTAL RESOURCES, INC. REC 6-4-2019 (NORRIS) **SPACING - 579708** 5/17/2019 - G75 - (640) 4-14N-12W **EXT OTHERS** EST MSSSD, KDRK, OTHERS EXT 572487 WDFD

5/17/2019 - G75 - (640) 33-15N-12W

EST MSSSD, KDRK, WDFD, OTHERS

EXT OTHERS

SPACING - 579753

EXHIBIT: <u>A (1 of 2)</u> SHEET: 8.5x14 SHL: <u>33-15N-12W</u> BHL-5 <u>4-14N-12W</u>



COVER SHEET

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

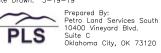
Section .	<u>33</u> Township _	$^{15\mathrm{N}}$ Range $_{ extstyle -}$	<u>12W</u> I.M.	Well:	ANGUS TRUST 5-33-4XF	IW
	'	9				
County	BLAINE	State	OK	Well:		
				******		Т
Operator	CONTINENTAL	RESOURCES,	INC.			

		NAD-	-83					
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W5	ANGUS TRUST 5-33-4XHW	269194	1826735	35° 44′ 18.78″ -98° 28′ 39.66″	35.738549 -98.477683	405' FNL / 1486' FEL (NE/4 SEC 33)	1635.23'	1636.76
LP-5	LANDING POINT	269194	1826901	35' 44' 18.78" -98' 28' 37.64"	35.738551 -98.477124	405' FNL / 1320' FEL (NE/4 SEC 33)		
BHL-5	BOTTOM HOLE LOCATION	259112	1826813	35' 42' 39.07" -98' 28' 38.11"	35.710854 -98.477252	50' FSL / 1320' FEL (SE/4 SEC 4)		
X-1	ANGUS TRUST #8-33-4XH	269265	1826182	35' 44' 19.46" -98' 28' 46.38"	35.738738 -98.479549	33–15N–12W: TD: 22,595' 335' FNL / 2,040' FEL		
X-2	ANGUS TRUST #9-33-4XH	269265	1826212	35' 44' 19.46" -98' 28' 46.01"	35.738739 -98.479448	33–15N–12W: TD: 22,438' 335' FNL / 2,010' FEL		
X-3	ANGUS TRUST #10-33-4XH	269265	1826242	35' 44' 19.46" -98' 28' 45.65"	35.738739 -98.479347	33–15N–12W: TD: 22,455' 335' FNL / 1,980' FEL		
X-4	ANGUS TRUST #11-33-4XH	269400	1827254	35' 44' 20.84" -98' 28' 33.38"	35.739123 -98.475938	33-15N-12W: TD: 22,372' 198' FNL / 969' FEL		
X-5	ANGUS TRUST #12-33-4XH	269400	1827284	35' 44' 20.84" -98' 28' 33.01"	35.739123 -98.475837	33-15N-12W: TD: 22,539' 198' FNL / 939' FEL		
X-6	TULSA ROYALTIES #1	260425	1824274	35° 42′ 51.94″ -98° 29′ 08.98″	35.714428 -98.485827	4-14N-12W: TD: 11,181' 1,370' FSL / 1,370' FWL		
X-7	ROACH #1-4H	259257	1825211	35° 42′ 40.44″ -98° 28′ 57.55″	35.711233 -98.482653	4-14N-12W: TD: 17,926' 200' FSL / 2,310' FWL		
X-8	ANGUS TRUST #1-4-33XH	259587	1827248	35' 42' 43.79" -98' 28' 32.86"	35.712165 -98.475795	4-14N-12W: TD: 22,164' 524' FSL / 889' FEL		

NAD-27								
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	ELE
W5	ANGUS TRUST 5-33-4XHW	269169	1858336	35' 44' 18.61" -98' 28' 38.40"	35.738503 -98.477332	405' FNL / 1486' FEL (NE/4 SEC 33)	1635.23'	16
LP-5	LANDING POINT	269169	1858502	35' 44' 18.62" -98' 28' 36.38"	35.738505 -98.476773	405' FNL / 1320' FEL (NE/4 SEC 33)		
BHL-5	BOTTOM HOLE LOCATION	259087	1858414	35' 42' 38.90" -98' 28' 36.85"	35.710807 -98.476903	50' FSL / 1320' FEL (SE/4 SEC 4)		
X-1	ANGUS TRUST #8-33-4XH	269241	1857782	35' 44' 19.29" -98' 28' 45.11"	35.738692 -98.479198	33-15N-12W: TD: 22,595' 335' FNL / 2,040' FEL		
X-2	ANGUS TRUST #9-33-4XH	269241	1857812	35' 44' 19.29" -98' 28' 44.75"	35.738692 -98.479097	33-15N-12W: TD: 22,438' 335' FNL / 2,010' FEL		
X-3	ANGUS TRUST #10-33-4XH	269240	1857842	35' 44' 19.29" -98' 28' 44.39"	35.738692 -98.478996	33-15N-12W: TD: 22,455' 335' FNL / 1,980' FEL		
X-4	ANGUS TRUST #11-33-4XH	269375	1858854	35' 44' 20.67" -98' 28' 32.12"	35.739076 -98.475588	33-15N-12W: TD: 22,372' 198' FNL / 969' FEL		
X-5	ANGUS TRUST #12-33-4XH	269375	1858884	35' 44' 20.67" -98' 28' 31.75"	35.739076 -98.475487	33-15N-12W: TD: 22,539' 198' FNL / 939' FEL		
X-6	TULSA ROYALTIES #1	260400	1855874	35' 42' 51.77" -98' 29' 07.72"	35.714380 -98.485478	4-14N-12W: TD: 11,181' 1,370' FSL / 1,370' FWL		
X-7	ROACH #1-4H	259233	1856811	35' 42' 40.27" -98' 28' 56.29"	35.711186 -98.482304	4-14N-12W: TD: 17,926' 200' FSL / 2,310' FWL		
X-8	ANGUS TRUST #1-4-33XH	259562	1858849	35' 42' 43.62" -98' 28' 31.61"	35.712118 -98.475446	4-14N-12W: TD: 22,164' 524' FSL / 889' FEL		

Certificate of Authorization No. 7318

Date Staked: **-**-19 Date Drawn: 3-19-19



R E	REVISIONS							
No.	DATE	BY	DESCRIPTION	COMMENTS				
00	3-19-19	HDG	ISSUED FOR APPROVAL					

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

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

Continental

CONTINENTAL RESOURCES, INC (OPERATOR)

8.5x14 SHEET: 33-15N-12W SHL: 4-14N-12W BHL-5

BLAINE _ County Oklahoma 405' FNL-1486' FEL Section 33___ Township 15N_Range __12W_ I.M.

ANGUS TRUST 5-33-4XHW WELL: 405, FNL 2636' 2636' X: 1822952 X: 1828225 Y: 269610 V· 269595 X: 1854553 X: 1859825 Y: 269571 **®** X-4 X-5 X: 1825589 X-1-W X-3 Y: 269585 Y: 269602 1486 X: 1857189 Y: 269577 W5 -LP-5 2637 2628' NE NW X: 1822934 X: 1828202 Y: 266972 Y: 266967 X: 1854534 X: 1859802 Y: 266948 Y: 266943 2638' 2636' SW SE X: 1825537 Y: 264333 X: 1857137 Y: 264308 X: 1822916 X: 1828175 Y: 264334 Y: 264332 X: 1854516 X: 1859776 Y: 264310 Y: 264307 GPS DATUM NAD-83 NAD-27 NW NE OK NORTH ZONE US FEET SCALE: 1" = 1250X: 1822908 X: 1828154 Y: 261681 Y: 261699 -0.4X: 1859754 X: 1854508 Y: 261657 Y: 261675 SW SE 2630, **₩-X-6** Y: 259058 **₩-X-8** X: 1857117 259034 X: 1822900 X: 1828133 X-7-W Y: 259052 Y: 259065 X: 1859733 X: 1854500 2617 2616 Y: 259027 Y: 259041 L_{BHL-5} CURRENT REV.: 0

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.



ONA

Date Drawn: 3-19-19