PI NUMBER:	051 24672 Oil & Gas	OIL & GAS	CORPORATIO CONSERVAT P.O. BOX 520 MA CITY, OK (Rule 165:10-3	00 73152-2000	Approval Date: Expiration Date:	07/02/2019 01/02/2021
		<u> </u>		RILL		
WELL LOCATION:	Sec: 32 Twp: 6N R	ge: 5W County: GRAD	Y			
SPOT LOCATION:	NE NE NE N	E FEET FROM QUARTER: FROM	NORTH FROM	EAST		
		SECTION LINES:	310	225		
Lease Name:	UMBACH	Well No:	1-33HW	We	II will be 225 feet from neare	est unit or lease boundary.
Operator Name:	CONTINENTAL RESOURCE	IS INC	Telephone: 40	32349020; 4052349	OTC/OCC Number:	3186 0
CONTINE	NTAL RESOURCES INC	c			& SUSAN P. BENNETT, H	ΔΔ/
PO BOX 2	269000					
OKLAHO	MA CITY, O	0K 73126-9000		2059 COUNTY		
				ALEX	OK 7	3002
	NOODFORD HUNTON 630983	13013 13178 Location Exception C	7 8 9 10		Increased Density Orders:	
Pending CD Numb	ers: 201903107 201903105				Special Orders:	
Total Depth: 1	7778 Ground Elevati	ion: 1134 Surface C	asing: 1500		Depth to base of Treatable Wate	r-Bearing FM: 350
Under Federal	Jurisdiction: No	Fresh Water S	Supply Well Drilled:	No	Surface Water	used to Drill: Yes
PIT 1 INFORMAT	ΓΙΟΝ		App	roved Method for dispos	al of Drilling Fluids:	
Type of Pit Syster	m: CLOSED Closed System M	leans Steel Pits				
Type of Mud Syst	em: WATER BASED		D.	One time land application	n (REQUIRES PERMIT)	PERMIT NO: 19-3675
Chlorides Max: 30	000 Average: 2000		H.	SEE MEMO		
Is depth to top of	ground water greater than 10ft be	elow base of pit? Y				
	nunicipal water well? N					
Wellhead Protecti						
	ted in a Hydrologically Sensitive A	Area.				
Category of Pit:						
	ed for Category: C					
Pit Location is						
Pit Location Form	ation: DUNCAN					

 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
 C

Pit Location is BED AQUIFER Pit Location Formation: DUNCAN

HORIZONTAL HOLE 1

Sec	33	Twp	6N	Rge	5W	/ (County	GRADY		
Spot	Locatior	of En	d Poin	t: S2	2	SW	SW	SW		
Feet	From:	SOL	JTH	1/4 Sec	ctior	n Line	: 50)		
Feet	From:	WE	ST	1/4 Section Line: 330						
Depth	n of Dev	iation:	12094	4						
Radiu	Radius of Turn: 477									
Direc	Direction: 175									
Total	Total Length: 4934									
Meas	Measured Total Depth: 17778									
True	True Vertical Depth: 13178									
End F	End Point Location from Lease,									
I	Unit, or Property Line: 50									

Notes:	
Category	Description
DEEP SURFACE CASING	6/25/2019 - 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	6/25/2019 - 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
МЕМО	6/25/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 201903105	6/27/2019 - G58 - 33-6N-5W X630983 WDFD 5 WELLS NO OP. NAMED REC 7/2/2019 (NORRIS)

051 24672 UMBACH 1-33HW

PENDING CD - 201903107

Description

6/27/2019 - G58 - (I.O.) 33-6N-5W X630983 MSSP, WDFD, HNTN X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO THE PIPKIN 1-28H WELL COMPL. INT. NCT 150' FNL, NCT 150' FSL, NCT 330' FWL NO OP. NAMED REC 7/2/2019 (NORRIS)

SPACING - 630983

6/27/2019 - G58 - (640)(HOR) 33-6N-5W VAC OTHERS EXT (640) OTHERS EST (640)(HOR) WDFD, OTHERS POE TO BHL NCT 330' FB

SHEET: SHL:	T: <u>A (1 of</u> <u>8.5x11</u> <u>32-6N-5</u> <u>33-6N-5</u>	W						
			COV	ER S	HEET			
					OURCES, 1-800-256-8955 (F) 40		051-24672	
S	Section32	2 Township	6N Range	<u>5W</u> I.M.	Well:	UMBACH	1-33HW	
(County	GRADY	State	OK	Well:			
(Operator	CONTINENTA	AL RESOURCES	, INC.				
	λ	JAD-83						

310' FNL / 225' FEL (NE/4 SEC 32)

310' FNL / 330' FWL (NW/4 SEC 33)

50' FSL / 330' FWL (SW/4 SEC 33)

		NAD	-27					
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DE ELE\
W1	UMBACH 1-33HW	590606	2077411	34° 57' 21.53" -97° 44' 30.00"	34.955982 -97.741666	310' FNL / 225' FEL (NE/4 SEC 32)	1133.41'	11
LP-1	LANDING POINT	590608	2077966	34° 57' 21.54" -97° 44' 23.33"	34.955983 -97.739815	310' FNL / 330' FWL (NW/4 SEC 33)		
BHL-1	BOTTOM HOLE LOCATION	585674	2077993	34° 56' 32.73" -97° 44' 23.16"	34.942426 -97.739766	50' FSL / 330' FWL (SW/4 SEC 33)		

LATITUDE LONGITUDE

34.956051 -97.741982

34.956052 -97.740131

34.942495 -97.740081

LATITUDE LONGITUDE

34° 57' 21.78" -97° 44' 31.14'

34° 57' 21.79" -97° 44' 24.47"

34[•] 56' 32.98" -97[•] 44' 24.29"

34'

Certificate	of	Authorization	No.	7318		
Date Stake	d:	**-**-19				



POINT

W1

LP-1

BHL-1

WELL NAME

BOTTOM HOLE LOCATION

UMBACH 1-33HW

LANDING POINT

NORTHING

590648

590650

585716

EASTING

2045815

2046369

2046397

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

RE	REVISIONS							
No.	DATE	BY	DESCRIPTION	COMMENTS				
00	6-20-19	HDG	ISSUED FOR APPROVAL					

EXISTING ELEVATION

1133.41'

DESIGN ELEVATION

1133.58'

