API NUMBER: 063 24721

Oil & Gas

Horizontal Hole

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

Approval Date: 11/08/2017
Expiration Date: 05/08/2018

PERMIT TO DRILL

WELL LOCATION: Sec: 36 Twp: 8N Rge: 10E County: HUGHES

SPOT LOCATION: SE SW SW FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 295 373

Lease Name: KELLER Well No: 3625-1HX Well will be 295 feet from nearest unit or lease boundary.

Operator ANTIOCH OPERATING LLC Telephone: 4052360080 OTC/OCC Number: 23947 0

ANTIOCH OPERATING LLC

PO BOX 1557

OKLAHOMA CITY, OK 73101-1557

KIMBERLY CROSSLEY 605 EAGLE TRAIL

KELLER TX 76248

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

Name Depth Name Depth MISSISSIPPIAN 1 4350 6 2 WOODFORD 4475 7 HUNTON 4555 8 3 SYLVAN 4575 9 10 667089 Spacing Orders: Location Exception Orders: 667746 Increased Density Orders: 667745

Pending CD Numbers: Special Orders:

Total Depth: 14500 Ground Elevation: 873 Surface Casing: 320 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

PIT 1 INFORMATION Approved Method for disposal of Drilling Fluids:

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED
Chlorides Max: 8000 Average: 5000

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: CALVIN

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 17-33230

H SEE MEMO

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: CALVIN

HORIZONTAL HOLE 1

Sec 25 Twp 8N Rge 10E County HUGHES

Spot Location of End Point: NE NW NW NW
Feet From: NORTH 1/4 Section Line: 165
Feet From: WEST 1/4 Section Line: 440

Depth of Deviation: 3951 Radius of Turn: 573

Direction: 2

Total Length: 9649

Measured Total Depth: 14500
True Vertical Depth: 4575
End Point Location from Lease,
Unit, or Property Line: 165

Notes:

Category Description

GAS STORAGE UNIT 10/9/2017 - G71 - DRILLING IN GREASY CREEK SPRINGS GAS STORAGE FOR CHANNEL

BOOCH (ORDER #95952/96291); MUST NOTIFY GAS STORAGE OPERATOR PER OCC 165:10-3-

5

HYDRAULIC FRACTURING 10/9/2017 - 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

LOCATION EXCEPTION - 667746 11/8/2017 - G75 - (I.O.) 36 & 25-8N-10E

X667089 MSSP, WDFD, HNTN, SLVN

SHL (36-8N-10E) SW4

COMPL. INT. (36-8N-10E) NCT 165' FSL, NCT 0' FNL, NCT 330' FWL COMPL. INT. (25-8N-10E) NCT 0' FSL, NCT 165' FNL, NCT 330' FWL

ANTIOCH ENÈRGY, LLC **

9-1-2017

** S/B ANTIOCH OP., LLC; TO BE CORRECTED AT HEARING FOR FINAL ORDER LOCATION

EXCEPTION PER OPERATOR

Category Description

MEMO 10/9/2017 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 -

OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

SPACING - 667089 11/8/2017 - G75 - (640)(HOR) 36 & 25-8N-10E

VAC 175552 WDFD, HNTN VAC 185892/189993 WDFD, HNTN

VAC 251496 HNTN

EXT 630417 MSSP, WDFD, HNTN, SLVN POE TO BHL (MSSP, HNTN) NCT 660' FB

POE TO BHL (SLVN) NCT 330' FB

POE TO BHL (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL

SPACING - 667745 11/8/2017 - G75 - (I.O.) 36 & 25-8N-10E EST MULTIUNIT HORIZONTAL WELL

X667089 MSSP, WDFD, HNTN, SLVN (MSSP, HNTN, SLVN ASSOCIATED COMMON SOURCES OF SUPPLY TO WDFD)

50% 36-8N-10E 50% 25-8N-10E ANTIOCH OP., LLC

9-1-2017

SURFACE LOCATION & WELL NUMBER 11/8/2017 - G75 - 295' FSL, 373' FWL SW4 36-8N-10E, GROUND ELEVATION 873', WELL NUMBER

3625-1HX PER STAKING PLAT

APPLICATION TO DRILL. RECOMPLETE OR REENTER

FORM 1000 REV. 2014

		IFFLICATION	O DIVILL, IVL	JOINIL LL I L	- OK KELIA				FORI
<u>FILE ORIGINAL ONLY</u> PLEASE TYPE OR USE BLAC <i>F</i>	CINK	OKL/	AHOMA CORPORA	TION COMMI	ISSION				REV
1. OTC/OCC OPERATOR NUM		OII	L & GAS CONSER		SION	BAT	TCH NUMBER	(OCC USE ON	1LY)
23947			JIM THORPE P.O. BO						
2. API NUMBER			OKLAHOMA CITY		000				
			(RULE 16						
3. NOTICE OF INTENT TO:		ONLY ONE)							
X DRILL RECOMPLE				REASON					
	ACH COPY OF 1002-A IF RE				attam bala laaati			VELL AND OUT	
 TYPE OF DRILLING OPERATA STRAIGHT HOLE 		(NOTE: If directional			ottom noie iocatio	on)	LEASE OR SE	PACING UNIT	IN INK.
B. X OIL/GAS INJEC					SERVICE WELL		52	.80	
						2310			4
5. WELL LOCATION: SECTION 36 TOWNSHIP	08N RANGE	10E COUN	ITY	Hughes		1650			4
SPOT LOCATION:	0014		ARTER from SOL	Hughes	MECTUNE	1650			4
5E 1/4 SW 1/4	SW 1/4 SW	1/4 SECTION LINES:		95	373 LINE	990			4
7. Well will be 295	feet from ne	earest unit or property	houndary			330			4
8. LEASE NAME:	Keller		WELL NUM	MBER:	1HX	2310			Û N
9. NAME OF		3625	EMAIL ADI	DECC.	1117	2310			4
OPERATOR: Antic	och Operating, LLC.		runderwood@a		gy	1650			1
ADDRESS (12 E. California A	√E '	PHONE (AC/NUMBER)	(405)23	36-0080	990			1
CITY	homa City	STATE	OK ZIP C	~~~	3103	330			1
10. SURFACE OWNER (ONE ONLY, A		700			3103	100		-	
TO. SONT ACE OVVIVER (OREONE), A		ro)	KIMBERLY	CROSSLE	ΞΥ		1980	1320	2640
ADDRESS		605 Eagle	Trail			11. Is well loc	ated on lands ur	nder federal juris	diction?
CITY	eller	STATE	TX ZIP CO	DDE 7	6248	I2. Will a wat	er well be drilled		N
IN.	CIICI			4,1	A-4 1717		ce water be use	x Y	. N
14. LIST TARGET FORMATIONS	AND DEPTHS OF EACH BE	LOW (LIMITED TO TE	N)		CONTRACTOR SERVICE AND ADDRESS OF THE PARTY		ration to Begin	08/31/1	7
4)				TEMI	ORAR		HORIZ	HUITA:	¥ {
1) MISSISSIPPIAN	4350'		6)		Age .	nn	1 N		P
²⁾ WOODFORD 447	75'		7)		2.1	O DEN	la la		NAM
3) HUNTON 4555'			8)					2.7	Keller 3625 WELL NAME
4) SYLVAN 4575'			9)	Expiration	on Date:_	11-	1-201	/	
5)			10)	Signatu	re: ///Q	Ma	Hull	lry	#
15. SPACING ORDER NUMBER(S) AND SIZE LINIT(S):					65:10-3	1-1	-	
16. PENDING APPLICATION C.D		TION EXCEPTION ORD	SER NO. 148		Multiunit 6			,	\dashv
-		667746			-				
19. TOTAL DEPTH 20. GROUN		EATABLE WATER 270	22. SURFACE CASIN 320'	1G 23. ALT C	CASING PROGUS _Y XN	ED?	A		
24. ALTERNATIVE CASING PRO				e side, line 31.)			CA	Alalma	*
A. Cement will be circu B. Cement will be circu	lated from total depth to grou lated from	nd surface on the prod depth to		ise of a two stand	e cementing tool.		UUA	WW	į.
25.1. PIT INFORMATION: Using r		tem?	Y X N If yes	s, fill out line 25.2	2 on top reverse si	de.	ASIL N. N.	4 4 4 7 7	j
A. TYPE OF MUD SYS B. EXPECTED MUD O	The second secon		COLUMN TO THE REAL PROPERTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE	BASED (AIR DE average:	RILL)	ppm.			
PIT #1 C. TYPE OF PIT SYST		maximum: off-site	X closed		specify location:	ррпп.			
	OF GROUND WATER GRE			_X	_YN	O# 0#- D	:4 NI_		
F. WELLHEAD PROT	MUNICIPAL WATER WELL ECTION AREA?	YY N	X N	in Caran	CI CIOSO	Off-Site P	ino.	oc stav	-0.40
26.1 A. CATEG	ORY 1A 1B 2	3 4 (C)	prining i	n Gree	asy cree	N Spr	rigs (a	AS SION	age
OCC USE ONLY B. PIT LOC		0/-		rock Aquifer	Other H.S.		n-H.S.A. Fm: 🔇		
	area or field rule? Q2	453 466 ED? Y		EEP SCA? 20 mil GEOMEMI	BRANE LINER RE	N	E. CBL requir	eu : Y	× 'N
27. PROPOSED METHOD FOR	DISPOSAL OF DRILLING FL	UIDS (MUST BE COM							
A. Evaporation/dewate B. Public Landfill: Loc	er and backfilling of reserve pation	vit.							
	REQUIRES PERMIT and surf	ace casing set 200 fee	t below base of treatal	ole water-bearing	g formation.)		PERMIT NO_		
X D. One time land appl	ication (REQU	-	PERMIT NO.	17-33		6	-		
	Il pit facility; Specify site: Il soil farming facility; Specify	site:				Order No Order No			
G. Haul to recycling/re	e-use facility; Specify site:					Order No			
H. Other, Specify:	closed sys	em=stee	I pits pe	r opera	xtor re	ques			
I hereb	y certify I am authoriz	ed to submit this	two page applica	tion prepared	d by me or und	der my sur	pervision.		
The fa	cts and proposals mad	de herein are true	, correct and con	plete to the	best of my kn	owledge a	nd belief.		

NAME (Print or Type)

Rob Underwood

A05-236-0080

NOTICE: Approval is void if operations have not compensed within six months of the date of approval. An approved permit must be posted at the location during drilling and completion operations. Figure 1001A, Spud Report, within fourteen days of commencement of operations.

	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	FY DISTRICT OF								
25.2. PIT INFORMATION: A. TYPE OF MUD SYSTEM:	WATER BAS	SED	OIL BASEI	D GAS BASE	ED (AIR DRILL)					
B. EXPECTED MUD CHLORI		maximum:	OIL BROLL	ppm;	average:		ppm.			
PIT #2 C. TYPE OF PIT SYSTEM:	on-site	off-sit		closed	If off-site, specify lo					
D. IS DEPTH TO TOP OF GR E. WITHIN 1 MILE OF MUNIC			T BELOW	BASE OF PIT?	Y	N	Off-Site Pit No.			
F. WELLHEAD PROTECTION			N	.''			OII-OILE 1 IL 140.			
26.2 OCC USE ONLY A. CATEGOR		2 3 4	C	Fm:			28. Locate Bottor	n Hole		
B. PIT LOCATION: Alluvial C. Special area or field rule?	Plain lerra	ice Deposit	EEP SCA?	ock Aquifer Y N	Other H.S.A. No E. CBL? Y	on-H.S.A. N		5280		
F. SOIL COMPACTED LINER REQ	UIRED?			EOMEMBRANE LINER		_ N	2240	5200	T	
29 Bottom Hole Location SEC	TWP	RGE	COU	INTY			2310		1	
for Directional Hole: SPOT LOCATION:		FEET FRO	M QUART	ER from SOUTH I	_INE from V	WEST LINE	1650		1	
1/4 1/4		1/4 SECTION I	LINES:				990		1	
Measured Total Depth	True Vertical Depth			BHL from nearest Lea	ase, Unit, Or Proper	rty Line:				
30. Bottom Hole Location for Horizontal H							330		1	矿
LATERAL#1: SEC 25 TV	VP 08N RGE	10E cou	NTV	ш	IGHES		2310		1	N
SPOT LOCATION:	VP UDIN RGE		M QUART	ER from	from		40504		9	
NE 1/4 NW 1/4 NW		1/4 SECTION		165 FN	L 440	ANT	1650		14	
Depth of Deviation Radius	or rum	503	Direction	2	Total Length	49	990		1 7	
Measured Total 14 500'	True Vertical	1===		End Point location fro	m nearest lease, ur		330		1	
Depth 14,300	Depth L	1575		or property line:	165			A COLUMN TO THE REAL PROPERTY OF THE PARTY O		
							1980 1320 660	1320 860 2640	2640	
LATERAL #2: SEC TV SPOT LOCATION:	NP RGE		INTY OM QUART	ER from	from		If more than two drain		sed attach	senara
1/4 1/4	1/4	1/4 SECTION	LINES:				sheet indicating the r	necessary inform	ation.	. Jopaia
Depth of Deviation Radius	of Turn		Direction		Total Length		2. Direction must be sta	-		
Measured Total	True Vertical			End Point location fro	m nearest lease ur	nit	Please note the horized be located within the			
Depth	Depth			or property line:	in rical cot icase, ai	· III.	unit. Directional surv			
							directional wells.			
	WP RGE		JNTY							
SPOT LOCATION: 1/4 1/4	1/4	1/4 SECTION	DM QUART LINES:	ER from SOUTH	LINE from \	WEST LINE				
	of Turn		Direction		Total Length	1				
				1=						
Measured Total Depth	True Vertical Depth			End Point location fro	om nearest lease, ur	nit	1			
				or property line:			ı			
31. AFFIDAVIT FOR ALTERNATIVE CA	ASING PROGRAM		(Signature	or property line: e on front of this form a	ittests to this affidav	/it)	l			
1. This wellWILL	WILL NOT pend		lost circula	e on front of this form a tion zones.			I			
This well WILL During the drilling of this well, wi	WILL NOT pene thdrawals from any wa	ater well within 1/4	lost circula 4 mile	e on front of this form a tion zones. WILL	WILL NOT	exceed 50 g	gallons per minute.			
1. This wellWILL	WILL NOT pene thdrawals from any wa is	ater well within 1/4 _IS NOT less	lost circula 4 mile than 100 fe	e on front of this form a tion zones. WILL eet from the top of any	WILL NOT enhanced recovery	exceed 50 g	as storage facility.	RCES BOARD,		
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