API NUMBER: 063 24723

Type of Mud System: WATER BASED

Is depth to top of ground water greater than 10ft below base of pit? Y

is located in a Hydrologically Sensitive Area.

Chlorides Max: 8000 Average: 5000

Within 1 mile of municipal water well?

Wellhead Protection Area? N

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

Category of Pit: C

Disposal

Straight 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

	PERIVITI TO L	<u> </u>	
WELL LOCATION: Sec: 36 Twp: 8N Rge: 10E	County: HUGHES		
SPOT LOCATION. SW SW SW	ROM QUARTER: FROM <b>SOUTH</b> FROM	WEST	
SECTIO	N LINES: 295	313	
Lease Name: KELLER	Well No: 1 SWD	Well will be	295 feet from nearest unit or lease boundary.
Operator ANTIOCH OPERATING LLC Name:	Telephone: 4	052360080	OTC/OCC Number: 23947 0
ANTIOCH OPERATING LLC PO BOX 1557	4.4557	KIMBERLY CROSSL 605 EAGLE TRAIL	EY
OKLAHOMA CITY, OK 7310	1-1557	KELLER	TX 76248
Formation(s) (Permit Valid for Listed Formation  Name  SIMPSON ARBUCKLE  3	Depth 4960 5710	Name 6 7 8	Depth
5		10	
Spacing Orders: No Spacing	Location Exception Orders:	I	ncreased Density Orders:
Pending CD Numbers:			Special Orders:
Total Depth: 7000 Ground Elevation: 873	Surface Casing: 320	Depth	n to base of Treatable Water-Bearing FM: 270
Under Federal Jurisdiction: No	Fresh Water Supply Well Drilled	l: No	Surface Water used to Drill: Yes
PIT 1 INFORMATION	A	oproved Method for disposal of Drilli	ing Fluids:
Type of Pit System: CLOSED Closed System Means Steel Pit	s		

D. One time land application -- (REQUIRES PERMIT)

H. SEE MEMO

PERMIT NO: 17-33229

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

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 10/5/2017 - 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

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 10/5/2017 - G71 - N/A - DISPOSAL WELL

SURFACE LOCATION 11/8/2017 - G75 - 295' FSL, 313' FWL SW4 36-8N-10E, GROUND ELEVATION 873' PER STAKING

PLAT

## APPLICATION TO DRILL, RECOMPLETE OR REENTER

FORM 1000

FILE ORIGINAL ONLY		,		REV. 2014
PLEASE TYPE OR USE BLACK INK  1. OTC/OCC OPERATOR NUMBER		CONSERVATION DIVISION	DATCH MUMBER (OCCURE ONLY)	
		CONSERVATION DIVISION THORPE BUILDING	BATCH NUMBER (OCC USE ONLY)	
23947		P.O. BOX 52000		
2. API NUMBER		MA CITY, OK 73152-2000 RULE 165:10-3-1)		
3. NOTICE OF INTENT TO:  X DRILL RECOMPLETE	(CHECK ONLY ONE)  REENTER DEEPEN	AMEND - REASON		
	Y OF 1002-A IF RECOMPLETION OR REENTRY.	AWEND - NEAGON	6. LOCATE WELL AND OUTLINE	
4. TYPE OF DRILLING OPERATION >>>	•	tal, see reverse side for bottom hole loca	tion) LEASE OR SPACING UNIT IN INI	<.
A. X STRAIGHT HOLE	DIRECTIONAL HOLE HORIZON			
BOIL/GASINJECTION	X DISPOSAL WATER SUPPLY	STRAT TESTSERVICE WE		
5. WELL LOCATION:			2310	
SECTION 36 TOWNSHIP 08	N RANGE 10E COUNTY	Hughes	1650	
SPOT LOCATION:	FEET FROM QUARTER	from SOUTHLINE from WESTLINE	990	
SW 1/4   SW 1/4   SW		205 313		
7. Well will be 295	feet from nearest unit or property boundary		330	仓
8. LEASE NAME:	Keller	WELL NUMBER: 1 SWD	2310	N
9. NAME OF Antioch Ope		EMAIL ADDRESS:	1650	
OI LIVATOR.	Turiuei	wood@antioch.energy	┥╶╌┠╌┼╌┼╌╂╌┼╌┼╌┤	
12 E. (	Salliottila AVE	405-236-0060	990	
CITY Oklahoma	City STATE OK	73101	330	
10. SURFACE OWNER (ONE ONLY, ATTACH SHEE			1980 1320 660 2640 1980 1320 660	သ
	Kir	mberly Crossley	80 20 80	5
ADDRESS	2055 1 7 1		11. Is well located on lands under federal jurisdiction	1?
, as a second se	605 Eagle Trail		Y	1
city Keller	STATE TX	ZIP CODE 76248	12. Will a water well be drilled' Y X N	36 SEC
			Will surface water be user X Y N  13. Date Operation to Begin	1
14. LIST TARGET FORMATIONS AND DEF	PTHS OF EACH BELOW (LIMITED TO TEN)		08/31/17	_ 1
1) Simpson 4960'		6)		TO'
Simpson _ 4900		- I TEMPORAR	Y AUTHORIZATION	08N TOWNSHIP Keller 1 SWD WELL NAME
2) %		7)		WE HE
3) Arbuckle 5710		8)	ONHILL	
4)		9)		
		Expiration Data:_	11-1-2017	10E RANGE
5)		10)		, m
15. SPACING ORDER NUMBER(S) AND S	IZE UNIT(S):	Signature.	Gow Fillery	
16. PENDING APPLICATION C.D. NO.	17. LOCATION EXCEPTION ORDER NO.	18. INCREASED DENSITY ORDER	165:10 3 1 1 NO.	
19. TOTAL DEPTH 20. GROUND ELEV.	24 BASE OF TREATABLE Was SER 22 SUBE	ACE CASING 23. ALT CASING PROG L	ICED2	
7000 873	270'	320'Y x N	CONNINE	
	check box and fill in blank (AFFIDAVIT REQUIRED,			
B. Cement will be circulated from	total depth to ground surface on the production casin depth to	ng string.  depth by use of a two stage cementing too	L WITH THE	
25.1. PIT INFORMATION: Using more than	one pit or mud system?	N If yes, fill out line 25.2 on top reverse	side.	
<ul><li>A. TYPE OF MUD SYSTEM:</li><li>B. EXPECTED MUD CHLORID</li></ul>	WATER BASED OIL BASED CONTENT: maximum:	GAS BASED (AIR DRILL)  ppm; average:	ppm.	J
PIT #1 C. TYPE OF PIT SYSTEM:	on-site off-site x	closed If off-site, specify location:		_
D. IS DEPTH TO TOP OF GRO  E. WITHIN 1 MILE OF MUNICIF	UND WATER GREATER THAN 10 FT BELOW BASI	E OF PIT?N	Off-Site Pit No.	
F. WELLHEAD PROTECTION		no in Ghanci Meek	Sommas Gas storage	•
26.1 A. CATEGORY	1A 1B 2 3 4 C	ing the masy ereck	Allings Cars Stringer	1
OCC USE ONLY  B. PIT LOCATION:	Alluvial Plain Terrace Deposit 9639	Bedrock Aquifer Other H. D. DEEP SCA?		-
	ED LINER REQUIRED? Y X N	G. 20 mil GEOMEMBRANE LINER F		
27. PROPOSED METHOD FOR DISPOSA	L OF DRILLING FLUIDS (INIUS ) BE COM		——————————————————————————————————————	-
A. Evaporation/dewater and bar B. Public Landfill: Location	ckfilling of reserve pit.			
	S PERMIT and surface casing set <b>ZUU TEET DE</b>	now pase of treatable wate	r-pearing T PERMIT NO	- -
X D. One time land application —		RMIT NO. 17-33229	Order No.	
E. Haul to Commercial pit facilit  F. Haul to Commercial soil farm			Order No.	-
G. Haul to recycling/re-use facil	ity; Specify site:		Order No.	_
H. Other, Specify:	ed system = Steel pits	per operator rea	JUEST	_
I hereby certify	y I am authorized to submit this two page	e application prepared by me or u	nder my supervision.	
The facts and	proposals made herein are true, correct			
SCY TRE CONTRACTOR	NAME (Print or Type)	Underwood 405	AC/NO.) FAX (AC/NO.) DATE 5-236-0080	1

NOTICE: Approval is void if operations have not commenced within six months of the date of approval. An approved permit must I File the Form 1001A, Spud Report, within fourteen days of commencement of operations.



## NOTIFY DISTRICT OFFICE 24 HOURS PRIOR TO CEMENTING SURFACE CASING

25.2. PIT INFORMATION:  A. TYPE OF MUD SY:	STEM: WATER B	ASED OIL BASI	ED GAS BASED (	VID UDII I /							
	CHLORIDE CONTENT:	maximum: off-site	ppm; ave	rage: f-site, specify location:	_ppm.						
D. IS DEPTH TO TOP	OF GROUND WATER GRE	ATER THAN 10 FT BELOV		YN	0" 0"						-
F. WELLHEAD PROT		Y	N		Off-Site	Pit No					_
	ATEGORY 1A 1B Alluvial Plain Ten		Fm:Oth	er H.S.A. Non-H.S.A.	28	B. Locate	Bottom	Hole			
C. Special area or field rule F. SOIL COMPACTED LINE		D. DEEP SCA	? Y N E. 0			1 1	5	280		_	,
	SEC TWP		DUNTY		2310	++					
SPOT LOCATION: 1/4 1/4	1/4	FEET FROM QUAR 1/4 SECTION LINES:	TER from SOUTH LINE	from WEST LINI							-
Measured Total Depth	True Vertical Depth	· · · · · · · · · · · · · · · · · · ·	BHL from nearest Lease,	Unit, Or Property Line:	990	++				-	4
30. Bottom Hole Location for Hor					330			1	_	_	û N
LATERAL #1: SEC SPOT LOCATION:	TWP RG	E COUNTY  FEET FROM QUAR	RTER from SOUTH LINE	from WEST LIN	2310	++					-
1/4 1/4	1/4 Radius of Tum	1/4 SECTION LINES:		Total Length	1650	$\dashv$				4-	_
Measured Total	True Vertical	J. Substantia	End Point location from ne		990		_				
Depth	Depth		or property line:	earest lease, urilit	330						]
LATERAL #2: SEC	. TWP RG	E COUNTY			4	1320 660	1980	2640	1320	1980	2640
SPOT LOCATION: 1/4 1/4	1/4	FEET FROM QUAR 1/4 SECTION LINES:	RTER from SOUTH LINE	from WEST LIN		re than tw t indicatin					ttach separate
Depth of Deviation	Radius of Turn	Direction	١	Total Length	2. Direc	tion must	be state	ed in de	grees	azimuth	
Measured Total	True Vertical	<b>_</b>	End Point location from n	earest lease, unit	be lo	cated with	nin the le	gal bou	ındarie	s of the	end point must lease or spacing
Depth	Depth		or property line:			Directiona tional well		s are re	equired	for all	drainholes and
LATERAL #3: SEC SPOT LOCATION:	TWP RG		RTER from SOUTH LINE	from WEST LIN	<b>=</b>						:
1/4 1/4 Depth of Deviation	1/4 Radius of Turn	1/4 SECTION LINES:		Total Length	4						
· ·		Birection			_						
Measured Total Depth	True Vertical Depth		End Point location from n or property line:	earest lease, unit							
31. AFFIDAVIT FOR ALTERNA											
This wellWILL	WILL NOT per	netrate any known lost circu		r	) gallons pe	er minute					
This well     WILL     During the drilling of this     The projected depth of the	WILL NOT per well, withdrawals from any w he well IS	netrate any known lost circul vater well within 1/4 mile IS NOT less than 100	lation zones.  WILL feet from the top of any enha	WILL NOT exceed 50	gas storag	e facility.		CES BO	DARD		
This well WILL During the drilling of this The projected depth of the List the following for all was 3800 N. Classen Blvd.,	well, withdrawals from any whe well Is vater wells within 1/4 mile of Oklahoma City, OK 73118)	netrate any known lost circulyater well within 1/4 mile IS NOT less than 100 this well. (Information conce	lation zones.  WILL feet from the top of any enhaming some water wells may DUND, SO STATE. (ATTAC	WILL NOT exceed 50 anced recovery project or be obtained from the OK H ADDITIONAL SHEET IF	gas storag _AHOMA V NECESSA	e facility. VATER RI ARY)	ESOUR				
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TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA
6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 • LOCAL (405) 843-4847 \* OUT OF STATE (800) 654-3219
Certificate of Authorization No. 1293 LS HUGHES API 063-24723 County, Oklahoma 295'FSL-313'FWL 36 Township 8N Range 10E I.M. \_ Section \_ ģ The information shown herein is construction purposes ONLY. X= 2534597 Y= 658650 X= 2539884 Y= 658740 X= 2537241 Y= 658695 NOTE X= 2534641 Y= 656009 X= 2539924 Y= 656103 36 OGRAD 2346' GRID NAD-27 OK SOUTH US Feet X= 2537324 Y= 653417 X= 2539963 Y= 653466 500' 1000 Township Line-P TBN -R10E T7N -R10E Operator: \_ANTIOCH ENERGY **ELEVATION:** Lease Name: KELLER Well No.: #1 SWD 873' Gr. at Stake Topography & Vegetation Loc. fell on pad under construction Reference Stakes or Alternate Location Good Drill Site? \_\_ Yes Stakes Set None Best Accessibility to Location \_\_\_\_ From South off county road Distance & Direction From Horntown, OK, go North on US Hwy. 75 for ±2 miles, then East from Hwy Jct or Town\_ on 1310 RD for  $\pm$  2 miles to the SW Cor. of Sec. 36-T8N-R10E War ESSIONAL Revision X A Date of Drawing: Oct. 24, 2017 Invoice # 280875 Date Staked: Oct. 24, 2017 DATUM: NAD-27 LAT: 35°06'59.4"N LONG: 96°12'39.9"W **CERTIFICATE:** LAT: \_\_35.116498232°N ı, Thomas L. Howell an Oklahoma Licensed Land SENSED THOMAS L LONG: 96.211093929°W Surveyor and an authorized agent of Topographic Land HOWELL STATE PLANE Surveyors of Oklahoma, do hereby certify to the COORDINATES: (US Feet) information shown herein ZONE: \_\_OK SOUTH X: 2534992

Oklahoma Lic. No.

OKLAHOMA

Y: 653669