API NUMBER: 063 24817

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

Approval Date: 06/26/2018
Expiration Date: 12/26/2018

Straight Hole Stratigraphic Test

PERMIT TO DRILL

	Twp: 9N Rge: 10E	County: HUG		w=0=			
SPOT LOCATION: SW SW	NW NW FEET FR		NORTH FROM 1293	WEST 182			
Lease Name: THUNDER		Well No:	1-13-1CH		Well will be 182	2 feet from nearest un	it or lease boundary.
Operator CALYX ENE Name:	RGY III LLC		Telephone: 91	89494224	ОТС	C/OCC Number:	23515 0
CALYX ENERGY III LLC 6120 S YALE AVE STE 1480					/. & LORI M. W	/ILLIAMS	
TULSA, OK 741:		6-4226	2151 N. 377 RD. WETUMKA			OK 7488	3
Name 1 MISSISSIPPIAN 2 WOODFORD 3 4 5 Spacing Orders: No Spacing		Depth 3600 3875 Location Exception	6 7 8 9 10 n Orders:	Name	Increas	Depth ded Density Orders:	
Pending CD Numbers:					Special	Orders:	
Total Depth: 4000	Ground Elevation: 855	Surface	Casing: 1500		Depth to bas	se of Treatable Water-Bea	ring FM: 140
Under Federal Jurisdiction: N	lo	Fresh Wate	er Supply Well Drilled:	No		Surface Water used t	o Drill: Yes
PIT 1 INFORMATION			Approved Method for disposal of Drilling Fluids:				
Type of Pit System: ON SITE Type of Mud System: AIR			Α.	A. Evaporation/dewater and backfilling of reserve pit.			
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.			F.	H. SEE MEMO F. Haul to Commercial soil farming facility: Sec. 14 Twn. 7N Rng. 9E Cnty. 63 Order No: 551649			

Category of Pit: 4

Liner not required for Category: 4

Pit Location is BED AQUIFER

Pit Location Formation: WEWOKA

Mud System Change to Water-Based or Oil-Based Mud Requires an Amended Intent (Form 1000).

PIT 2 INFORMATION

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: WEWOKA

Notes:

Category Description

DEEP SURFACE CASING 5/31/2018 - 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

MEMO 5/31/2018 - G71 - PIT 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST,

WBM/CUTTINGS CAPTURED IN CONCRETE-LINED PIT, SOLIDFIED AND HELD UNTIL DISPOSAL

APPROVED BY OCC

SPACING 6/26/2018 - G57 - NA - STRATIGRAPHIC TEST

STRAT TEST 6/26/2018 - G57 - THIS WELL HAS BEEN APPROVED AS A STRATIGRAPHIC TEST WITH THE

INTENT TO SET SURFACE CASING ONLY. OPERATOR WILL FILE AN AMENDED FORM 1000

CHANGING THE TYPE OF DRILLING OPERATION AT A LATER DATE.

