API NUMBER:	063 24	848 A		OIL & GAS	CORPORATION CONSERVATI P.O. BOX 5200 OMA CITY, OK 3	ON DIVISION	N	Approval Date: Expiration Date:	09/04/2018 03/04/2019	
Horizontal Hole Multi Unit	Oil	& Gas			(Rule 165:10-3					
mend reason: UPDAT PDATE ORDERS	E AS DRIL	LED BHL PER (OCC REQUEST &	AM	END PERMIT TO	DRILL				
WELL LOCATION:	Sec: 05	Twp: 8N	I Rge: 12E	County: HUGł	HES					
SPOT LOCATION:	NE	NW		ROM QUARTER: FROM		EAST 920				
Lease Name:	ROOSEVE	LT		Well No:	4-5-18CH	,	Well will be 920	feet from near	est unit or lease boundary.	
Operator Name:	CALYX	ENERGY III LL	c		Telephone: 918	9494224	OTC/	OCC Number:	23515 0	
CALYX E	NERGY	III LLC								
		STE 1480				JAMES B. W	VISE			
TULSA,			OK 7413	6-4226		3401 HICKC	DRY STICK RD	STICK RD		
1020/4,						OKC		OK	73120	
4 5 Spacing Orders:	673572 671026 694723			Location Exception	9 10 Orders: 694724		Increased D	ensity Orders:	694963 694964 700328	
Pending CD Numb	ers:						Special Orde	ers:		
Total Depth: 1	5825	Ground E	Elevation: 736	Surface	Casing: 1500		Depth to base	of Treatable Wat	er-Bearing FM: 280	
					Deep	surface casing	has been approv	ved		
Under Federal	Jurisdiction	: No		Fresh Water	Supply Well Drilled:	No		Surface Water	used to Drill: Yes	
PIT 1 INFORMAT	FION				Арр	oved Method for disp	posal of Drilling Fluids			
Type of Pit Syster	m: ON SI	TE			A. I	vaporation/dewater	and backfilling of rese	erve pit.		
Type of Mud Syst	em: AIR				В. 3	Solidification of pit co	ntents.			
Within 1 mile of m Wellhead Protecti	nunicipal wa ion Area?	-	10ft below base of pirsterion below base of pirsterio	t? Y	551	laul to Commercial s 649 SEE MEMO	oil farming facility: Se	c. 14 Twn. 7N Rr	ng. 9E Cnty. 63 Order No:	
Category of Pit:										
Liner not require										
Pit Location is Pit Location Form		IFER SENORA								

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 Is BED AQUIFER Pit Location Formation: SENORA

HORIZONTAL HOLE 1

Sec	18	Twp	8N	Rge	12E	County	HUGHES	
Spot Location of End Point: NE NE NW SW								
Feet I	From:	SOL	JTH	1/4 Seo	ction Lin	ne: 25	575	
Feet From:		WE	ST	1/4 Section Line:		ne: 10	041	
Depth	Depth of Deviation: 901							
Radiu	Radius of Turn: 2563							
Direction: 215								
Total Length: 10898								
Measured Total Depth: 15825								
True Vertical Depth: 3974								
End Point Location from Lease,								
Unit, or Property Line: 1041								

Notes:	
Category	Description
DEEP SURFACE CASING	7/13/2018 - 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
HYDRAULIC FRACTURING	7/13/2018 - 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
INCREASED DENSITY - 694873	11/25/2019 - G56 - 18-8N-12E X671026 CNEY 1 WELL CALYX ENERGY, LLC 4/18/2019
INCREASED DENSITY - 694963	11/25/2019 - G56 - 5-8N-12E X673572 CNEY 1 WELL CALYX ENERGY III, LLC 4/22/2019

063 24848 ROOSEVELT 4-5-18CH

INCREASED DENSITY - 694964	11/25/2019 - G56 - 7-8N-12E X673572 CNEY 1 WELL CALYX ENERGY III, LLC 4/22/2019
INCREASED DENSITY - 700328	11/25/2019 - G56 - 8-8N-12E X673572 CNEY 1 WELL NO OP NAMED 8/6/2019
LOCATION EXCEPTION - 694724	11/25/2019 - G56 - (F.O.) 5,7,8,18-8N-12E X673572 CNEY 5,7,8-8N-12E X671026 CNEY 18-8N-12E SHL (5-8N-12E) 999' FSL, 920' FEL 5-8N-12E COMPL. INT. (FIRST PERF) 647' FSL, 2361' FWL COMPL. INT. (LAST PERF) 0' FSL, 1640' FWL 8-8N-12E COMPL. INT. (LAST PERF) 1' FNL, 1640' FWL COMPL. INT. (LAST PERF) 2293' FNL, 0' FWL 7-8N-12E COMPL. INT. (FIRST PERF) 2293' FNL, 0' FWL 7-8N-12E COMPL. INT. (LAST PERF) 2293' FNL, 0' FWL COMPL. INT. (LAST PERF) 0' FSL, 2133' FEL 18-8N-12E COMPL. INT. (FIRST PERF) 1' FNL, 2133' FEL 18-8N-12E COMPL. INT. (LAST PERF) 1' FNL, 2133' FEL COMPL. INT. (LAST PERF) 2623' FNL, 1110' FWL CALYX ENERGY III, LLC 4/16/2019
МЕМО	7/13/2018 - 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 - 671026	11/25/2019 - G56 - (640) 18-8N-12E EST CNEY, OTHERS POE TO BHL NLT 330' FB
SPACING - 673572	11/25/2019 - G56 - (640)(HOR) 5,7,8-8N-12E EXT OTHERS EST CNEY, OTHER POE TO BHL NLT 330' FB
SPACING - 694723	11/25/2019 - G56 - (F.O.) 5,7,8,18-8N-12E EST MULTIUNIT HORIZONTAL WELL X673572 CNEY 5,7,8-8N-12E X671026 CNEY 18-8N-12E 9.1129% 5-8N-12E 26.2042% 8-8N-12E 34.3221% 7-8N-12E 30.3608% 18-8N-12E CALYX ENERGY III, LLC. 4/16/2019

063-24848A

SUMMARY OF BOTTOM HOLE LOCATIONS CALYX ENERGY III, LLC

Roosevelt 4-5-18CH 5,7,8,18-8N-12E Hughes Co.

CD-2018-4965-T (Multi Unit Hz)

CD 2018-4966-T (Loc. Exc.- sec. 5,7,8,18) Int. Order 685663

	MD	TVD	Location
Surface Location			999' FSL & 920' FEL of sec. 5-8N-12E
Caney	4,459'	3,978'	824' FSL & 2455' FEL of sect. 5-8N-12E
First Perforation	4,950'	3,967'	647' FSL & 2361' FWL of sect. 5-8N-12E
South line of sec. 5 / North line of sec. 8	5,930'	3,938'	0' FSL & 1640' FWL of sect. 5-8N-12E
North line of sec. 8 / West line of sec. 8	8,748'	3,921'	2293' FNL & 0' FWL of sect. 8-8N-12E
South line of sec. 7 / North line of sec. 18	12,439'	3,869	0' FSL & 2133' FEL of sect. 7-8N-12E
Last Perforation	15,704'	3,974'	2623' FNL & 1110' FWL of sect. 18-8N-12E
Terminus (BHL)	15,825'	3,974'	2575' FSL & 1041' FWL of sect. 18-8N-12E

Perforations in sections 5,7,8,&18 are in the Caney only.

The completion interval (CI) is from first perforation 4,950' to last perforation 15,704' MD.

Formation tops and entry points	MD	Length of CI in each unit (% of total)		
Caney	4,459			
First Perforation	4,950	980 ' in section 5 (9.1129%)		
South line of sec. 5 / North line of sec. 8	5,930	2,818 ' in section 8 (26.2042%)		
North line of sec. 8 / West line of sec. 8	8,748	3,691 ' in section 7 (34.3221%)		
South line of sec. 7 / North line of sec. 18	12,439	3,265 ' in section 18 (30.3608%)		
Last Perforation	15,704			
Total Depth (BHL) in Caney	15,825	10,754 ' total length of C.I. (100%)		



