| API NUMBER: 063 | 3 24818 A Oil & Gas | OIL & | OMA CORPORATIO GAS CONSERVA P.O. BOX 520 LAHOMA CITY, OK (Rule 165:10- | FION DIVISION 000 73152-2000 | Approval Da Expiration D | | |
|--|--|------------------------------|--|--|---|---------------------------------|--|
| mend reason: CHANGE TO HORIZONTAL HOLE <u>AMEND PERMIT TO DRILL</u> | | | | | | | |
| WELL LOCATION: Se | c: 18 Twp: 9N | Rge: 10E County: | HUGHES | | | | |
| | | | ROM NORTH FROM | WEST | | | |
| Lease Name: THU | NDER | Well | 1263 No: 2-18-6MH | 182 | Well will be 182 feet from r | nearest unit or lease boundary. | |
| | ALYX ENERGY III LLC | | Telephone: 9 | 89494224 | OTC/OCC Numb | | |
| CALYX ENER | | | | EDWARD | V. WILLIAMS & LORI V. W | ILLIAMS | |
| 6120 S YALE AVE STE 1480 | | OK 74126 4226 | 2151 N. 377 RD | | 7 RD | | |
| TULSA, | | OK 74136-4226 | | WETUMKA | ОК | 74883 | |
| 2 WOO 3 4 5 Spacing Orders: 678 | | 3600 3875 Location Exc | 6 7 8 9 1 eption Orders: | | Increased Density Ord | lers: | |
| 678 | 201804487 | | | | Special Orders: | | |
| Pending CD Numbers: | 201804487 201804488 201804489 201804486 | | | | Special Olders. | | |
| Total Depth: 15250 | Ground Ele | evation: 853 Surf | ace Casing: 1500 | | Depth to base of Treatable | Water-Bearing FM: 140 | |
| Under Federal Juris | diction: No | Fresh | Water Supply Well Drilled | No | Surface W | ater used to Drill: Yes | |
| PIT 1 INFORMATION | | | Ap | proved Method for d | sposal of Drilling Fluids: | | |
| Type of Pit System: Type of Mud System: | | | | . Evaporation/dewate . Solidification of pit of | er and backfilling of reserve pit. contents. | | |
| Is depth to top of ground water greater than 10ft below base of pit? Y Within 1 mile of municipal water well? N | | | | F. Haul to Commercial soil farming facility: Sec. 14 Twn. 7N Rng. 9E Cnty. 63 Order No: 551649 | | | |
| Wellhead Protection Area? N | | | | H. SEE MEMO | | | |
| Pit is located ir Category of Pit: 4 | a Hydrologically Sensit | live Area. | _ | | | | |
| Liner not required fo | r 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).

This permit does not address the right of entry or settlement of surface damages. The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1. Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

 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

HORIZONTAL HOLE 1

HUGHES Sec 06 Twp 9N Rge 10E County Spot Location of End Point: N2 NW NW NW Feet From: NORTH 1/4 Section Line: 165 Feet From: WEST 1/4 Section Line: 330 Depth of Deviation: 3173 Radius of Turn: 573 Direction: 2 Total Length: 11177 Measured Total Depth: 15250 True Vertical Depth: 3875 End Point Location from Lease, Unit, or Property Line: 165

| Notes: | |
|----------------------|---|
| Category | Description |
| DEEP SURFACE CASING | 6/19/2018 - 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 | 6/19/2018 - 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 |
| MEMO | 6/19/2018 - 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 |
| | |

| Category | Description |
|------------------------|---|
| PENDING CD - 201804486 | 6/20/2018 - G57 - (I.O.) 6,7,18,19-9N-10E EST MULTIUNIT HORIZONTAL WELL X678867 MSSP, WDFD 18 & 19-9N-10E X678869 MSSP, WDFD 6 & 7-9N-10E (WDFD IS AN ADJACENT COMMON SOURCE OF SUPPLY TO THE MSSP) 10% 18 & 19-9N-10E 90% 6 & 7-9N-10E CALYX ENERGY III, LLC. REC 6-25-2018 (JOHNSON) |
| PENDING CD - 201804487 | 6/20/2018 - G57 - (I.O.) 6,7,18,19-9N-10E X678867 MSSP, WDFD 18 & 19-9N-10E X678869 MSSP, WDFD 6 & 7-9N-10E COMPL. INT. (18 & 19-9N-10E) NFT 1320' FNL, NCT 0' FNL, NCT 330' FWL COMPL. INT. (6 & 7-9N-10E) NCT 0' FSL, NCT 165' FNL, NCT 330' FWL CALYX ENERGY III, LLC. REC 6-25-2018 (JOHNSON) |
| PENDING CD - 201804488 | 6/20/2018 - G57 - 6 & 7-9N-10E X678869 MSSP 1 WELL CALYX ENERGY III, LLC. REC 6-25-2018 (JOHNSON) |
| PENDING CD - 201804489 | 6/20/2018 - G57 - 18 & 19-9N-10E X678867 MSSP 1 WELL CALYX ENERGY III, LLC. REC 6-25-2018 (JOHNSON) |
| SPACING - 678867 | 6/20/2018 - G57 - (1280)(HOR) 18 & 19-9N-10E EST MSSP, WDFD, OTHER POE TO BHL (MSSP) NLT 660' FB POE TO BHL (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL |
| SPACING - 678869 | 6/20/2018 - G57 - (1280)(HOR) 6 & 7-9N-10E EST MSSP, WDFD, OTHER POE TO BHL (MSSP) NLT 660' FB POE TO BHL (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL |