API NUMBER: 051 25013

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

Approval Date: 02/23/2023

Expiration Date: 08/23/2024

Directional Hole Injection

PERMIT TO DRILL

| WELL LOCATION: | Section: (|)8 | Township: | 3N Ran | ge: 5W | County: | GRADY | | | | | |
|---|-------------------------------------|--------------------------------|--------------------------------------|---|-----------------|--|--------------|---|------------------------------|----------------|---------------------------|--------------------|
| SPOT LOCATION: | SW NE | NW | NW | FEET FROM QUAR | TER: FROM | NORTH | FROM | WEST | | | | |
| | | | | SECTION LI | NES: | 641 | | 722 | | | | |
| Lease Name: | STMU | | | | Well No | : 6-4-2 INJ | ı | , | Well will be | 641 | feet from nearest unit | or lease boundary. |
| Operator Name: | MACK ENER | GY CO | | | Telephone | : 40583298 | 830; 5802 | 2525580 | | | OTC/OCC Num | ber: 11739 0 |
| MACK ENERG | SY CO | | | | | | М | CCASLAND FARI | MS | | | |
| | | | | | | | 47 | 00 GAILLARDIA | PARKWAY | , | | |
| OKLAHOMA C | `ITV | | OK | 73142-1839 | | | | JITE 102 | | | | |
| ORLAI IOIVIA C | OKLAHOMA CITY, OK 73142-1839 | | | | | | 11 | - | | | 01/ 70440 | |
| | | | | | | | Or | KLAHOMA CITY | | | OK 73142 | |
| | | | | | | | | | | | | |
| Formation(s) | (Permit Va | alid for Li | sted For | mations Only) | : | | | | | | | |
| Name | | | Code | | Depth | |] | | | | | |
| 1 MORROW SL | JBTHRUST | | 402M | RWST | 9848 | | | | | | | |
| Spacing Orders: | lo Spaci | ng | | L | ocation Exce | ption Order | s: No | Exceptions | | Inc | creased Density Orders: | No Density |
| Pending CD Number | s: No P | ending | | _ | Working in | terest owne | ers' notifie | d: *** | | | Special Orders: | No Special |
| Total Depth: 10592 Groun | | | Elevation: 1 | 274 | Surface Casing: | | 1500 | | Depth to | base o | of Treatable Water-Bearin | ng FM: 320 |
| | | | | | | | | | | D | eep surface casing | has been approved |
| Under Federal Jurisdiction: No | | | | | | Approved Method for disposal of Drilling Fluids: | | | | | | |
| | Fresh Water Supply Well Drilled: No | | | | | D. One time land application (REQUIRES PERMIT) PERMIT NO: 23-38881 | | | | | | |
| | Supply Well D | rilled: No | | | | | D. C | one time land application | n (REQUIRE | S PER | RMIT) PER | MH NO: 23-38881 |
| Fresh Water S | Supply Well D Water used to | | | | | | | one time land application | | CLOSE | D SYSTEM=STEEL PITS | |
| Fresh Water S | | | · | | | | | | | | D SYSTEM=STEEL PITS | |
| Fresh Water S Surface | Water used to | Drill: Yes | | | | | H. (0 | Other) Category of I | Pit: C | CLOSE | D SYSTEM=STEEL PITS | |
| Fresh Water S Surface PIT 1 INFORM Type of Pi | Water used to | Drill: Yes | losed Syster | m Means Steel Pit | s | | H. (0 | Category of I | Pit: C | CLOSE | D SYSTEM=STEEL PITS | |
| Fresh Water S Surface PIT 1 INFORM Type of Pi Type of Mur | IATION it System: C | Drill: Yes | losed Syster | m Means Steel Pit | s | | H. (C | Category of I er not required for Ca Pit Location | Pit: C tegory: C is: NON HS. | CLOSE REQUE | D SYSTEM=STEEL PITS | |
| PIT 1 INFORM Type of Muc Chlorides Max: 500 | IATION it System: C d System: W | Drill: Yes LOSED CI ATER BAS | losed Syster | | | | H. (C | Category of I | Pit: C tegory: C is: NON HS. | CLOSE REQUE | D SYSTEM=STEEL PITS | |
| PIT 1 INFORM Type of Mu Chlorides Max: 500 Is depth to to | IATION it System: C d System: W | LOSED CI VATER BAS | losed Systel ED or than 10ft b | m Means Steel Pit below base of pit? | | | H. (C | Category of I er not required for Ca Pit Location | Pit: C tegory: C is: NON HS. | CLOSE REQUE | D SYSTEM=STEEL PITS | |

DIRECTIONAL HOLE 1

Section: 6 Township: 3N Range: 5W Meridian: IM

is not located in a Hydrologically Sensitive Area.

County: GRADY Measured Total Depth: 10592

Spot Location of End Point: SE SE SE SE True Vertical Depth: 10490

Feet From: SOUTH

1/4 Section Line: 299

End Point Location from
Lease, Unit, or Property Line: 236

NOTES:

| Category | Description |
|----------------------|---|
| DEEP SURFACE CASING | [2/17/2023 - GC2] - APPROVED; (1) NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING. (2) SUBSEQUENT WELLS ON SAME PAD WILL NOT BE ALLOWED DEEP SURFACE CASING IN THE EVENT OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING. |
| HYDRAULIC FRACTURING | [2/17/2023 - GC2] - OCC 165:10-3-10 REQUIRES: 1) NOTICE SHALL BE GIVEN AT LEAST 5 BUSINESS DAYS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS ON A HORIZONTAL WELL TO OPERATORS PRODUCING WELLS WITHIN 1 MILE OF THE COMPLETION INTERVAL OF THE SUBJECT WELL. THE NOTICE TO SUCH OPERATORS SHALL CONTAIN THE INFORMATION IN FORM 6000NOO. IF THE HYDRAULIC FRACTURING OPERATIONS SCHEDULE CHANGES AFTER NOTICE HAS BEEN PROVIDED, RESULTING IN A DELAY OF OPERATIONS OF MORE THAN 5 DAYS FROM THE INITIAL NOTICE, NEW NOTICE IS REQUIRED TO BE GIVEN; 2) NOTICE WILL BE GIVEN TO THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS. FORM 6000NHF SHALL BE FOUND HERE: HTTPS://OKLAHOMA.GOV/OCC/DIVISIONS/OIL-GAS/OGCD-FORMS; AND, 3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS IS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION OF HYDRAULIC FRACTURING OPERATIONS, FOUND AT FRACFOCUS.ORG |
| SPACING | [2/17/2023 - GC2] - N/A - INJECTION WELL |