

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

API NUMBER: 085 21069 A

Approval Date: 11/26/2018
Expiration Date: 05/26/2020

Directional Hole Oil & Gas

PERMIT TO DEEPEN

WELL LOCATION: Sec: 14 Twp: 6S Rge: 1W

County: LOVE

SPOT LOCATION: ☐ NE ☐ NE ☐ SE ☐ NE

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 1155 2410

Lease Name: EHU-RENICK

Well No: 1-14

Well will be 1090 feet from nearest unit or lease boundary.

Operator Name: E2 OPERATING LLC

Telephone: 9182709927

OTC/OCC Number: 23901 0

E2 OPERATING LLC
1560 E 21ST ST STE 215
TULSA, OK 74114-1345

BARBARA Kaelin, ET AL
1518 TAMARISK LANE
TRACY CA 95377

Formation(s) (Permit Valid for Listed Formations Only):

| Name | Depth | Name | Depth |
|---------|-------|------|-------|
| 1 DEESE | 8590 | 6 | |
| 2 | | 7 | |
| 3 | | 8 | |
| 4 | | 9 | |
| 5 | | 10 | |

Spacing Orders: 532907

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 9080

Ground Elevation: 742

Surface Casing: 1087 IP

Depth to base of Treatable Water-Bearing FM: 990

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 5000 Average: 3000

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: ANTLERS

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 18-35841

H. CLOSED SYSTEM=STEEL PITS (REQUIRED- WALNUT BAYOU)

DIRECTIONAL HOLE 1

Sec 13 Twp 6S Rge 1W County LOVE

Spot Location of End Point: SW SW SW NW

Feet From: SOUTH 1/4 Section Line: 190

Feet From: WEST 1/4 Section Line: 250

Measured Total Depth: 9080

True Vertical Depth: 8800

End Point Location from Lease,

Unit, or Property Line: 1070

Notes:

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.

| Category | Description |
|----------------------|---|
| HYDRAULIC FRACTURING | <p>11/2/2018 - GA8 - OCC 165:10-3-10 REQUIRES:</p> <p>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;</p> <p>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: OCCWEB.COM/OG/OGFORMS.HTML; AND,</p> <p>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</p> |
| SPACING - 532907 | <p>11/26/2018 - G75 - (UNIT) W2 NW4, SW4 13 & E2 NE4 14-6S-1W EST EASTMAN HILLS UNIT FOR DEESS</p> |
| SURFACE LOCATION | <p>11/26/2018 - G75 - 1155' FSL, 2410' FWL NE4 14-6S-1W PER 1002A</p> |