API NUMBER: 065 20298 A

Directional Hole Oil & Gas

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

Approval Date: 01/20/2016
Expiration Date: 07/20/2016

Amend reason: CHANGE FROM VERTICAL TO DIRECTIONAL WELL; CHANGE TD

## AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 30 Twp: 1S Rge: 23W County: JACKSON

SPOT LOCATION: C SW SE SW

FEET FROM QUARTER: FROM **SOUTH** FROM **WEST**

SECTION LINES: **330** **1650**

**Lease Name: BREWER** **Well No: 1-30** **Well will be 330 feet from nearest unit or lease boundary.**

**Operator Name: GLB EXPLORATION INC** Telephone: 4057870049 OTC/OCC Number: 18634 0

GLB EXPLORATION INC
7716 MELROSE LN
OKLAHOMA CITY, OK 73127-6002

EDDIE & JUDY MITCHELL
P.O. BOX G
ELDORADO OK 73537

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

| | Name | Depth | | Name | Depth |
|---|---|---|---|---|---|
| 1 | CANYON | 5500 | 6 | | |
| 2 | | | 7 | | |
| 3 | | | 8 | | |
| 4 | | | 9 | | |
| 5 | | | 10 | | |

Spacing Orders: 646345

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 5908 Ground Elevation: 1419 **Surface Casing: 270** Depth to base of Treatable Water-Bearing FM: 220

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: No

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 not** located in a Hydrologically Sensitive Area.

**Category of Pit: C**

**Liner not required for Category: C**

Pit Location is NON HSA

Pit Location Formation: ELM FORK

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 16-30998

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

DIRECTIONAL HOLE 1

Sec 30 Twp 1S Rge 23W County JACKSON

Spot Location of End Point: N2 SW SE SW

Feet From: SOUTH 1/4 Section Line: 550

Feet From: WEST 1/4 Section Line: 1650

Measured Total Depth: 5908

True Vertical Depth: 5888

End Point Location from Lease,
Unit, or Property Line: 330

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 |
| --- | --- |
| FOOTAGES | 1/20/2016 - G60 - 1650' FWL PER STAKING PLAT |
| HYDRAULIC FRACTURING | 1/11/2016 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK HTTP://FRACFOCUS.ORG/ WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE. |
| SPACING - 646345 | 1/12/2016 - G60 - (80) SW4 30-1S-23W SU SE/NW<br>VAC 435629 CNYN SW4<br>EST CNYN |

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