

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

API NUMBER: 087 22188 A

Approval Date: 10/24/2018  
Expiration Date: 04/24/2020

Horizontal Hole Oil & Gas

Amend reason: SHL/BHL CHANGE

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 02 Twp: 7N Rge: 4W

County: MCCLAIN

SPOT LOCATION:  SE  SW  SE  SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 235 1660

Lease Name: JOKER

Well No: 2-11H

Well will be 235 feet from nearest unit or lease boundary.

Operator Name: ECHO E & P LLC

Telephone: 4057534232

OTC/OCC Number: 23925 0

ECHO E & P LLC  
3817 NW EXPRESSWAY STE 810  
OKLAHOMA CITY, OK 73112-1470

CHARLES NEWTON GRAY  
328 WEST ADAMS STREET  
PURCELL OK 73080

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

| Name       | Depth | Name | Depth |
|------------|-------|------|-------|
| 1 WOODFORD | 9800  | 6    |       |
| 2          |       | 7    |       |
| 3          |       | 8    |       |
| 4          |       | 9    |       |
| 5          |       | 10   |       |

Spacing Orders: 678750

Location Exception Orders:

Increased Density Orders: 679298

Pending CD Numbers:

Special Orders:

Total Depth: 15103

Ground Elevation: 1197

**Surface Casing: 1500**

Depth to base of Treatable Water-Bearing FM: 330

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Type of Pit System: ON SITE

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: 2

Liner not required for Category: 2

Pit Location is BED AQUIFER

Pit Location Formation: DUNCAN

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 18-35504

H. SEE MEMO

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: ON SITE
Type of Mud System: OIL BASED
Chlorides Max: 300000 Average: 200000
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: 3
Liner required for Category: 3
Pit Location is BED AQUIFER
Pit Location Formation: DUNCAN

HORIZONTAL HOLE 1

Sec 11 Twp 7N Rge 4W County MCCLAIN
Spot Location of End Point: SE SE SW SW
Feet From: SOUTH 1/4 Section Line: 165
Feet From: WEST 1/4 Section Line: 1174
Depth of Deviation: 9237
Radius of Turn: 573
Direction: 183
Total Length: 4966
Measured Total Depth: 15103
True Vertical Depth: 9810
End Point Location from Lease,
Unit, or Property Line: 165

Notes:

Table with 2 columns: Category, Description. Rows include COMPLETION INTERVAL, DEEP SURFACE CASING, HYDRAULIC FRACTURING, and INCREASED DENSITY - 679298.

This permit does not address the right of entry or settlement of surface damages.
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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                                                                                                                                                                       |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MEMO             | 4/9/2019 - GA8 - MIN. 20-MIL PIT LINER REQUIRED, OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT                                                                          |
| SPACING - 678750 | 4/9/2019 - G56 - (640)(HOR) 11-7N-4W<br>VAC. OTHER<br>EST. OTHER<br>EXT. 664084 WDFD, OTHER<br>POE TO BHL NLT 165' FNL/FSL, NLT 330' FEL/FWL<br>(COEXIST WITH NON HOR. SP. UNITS) |

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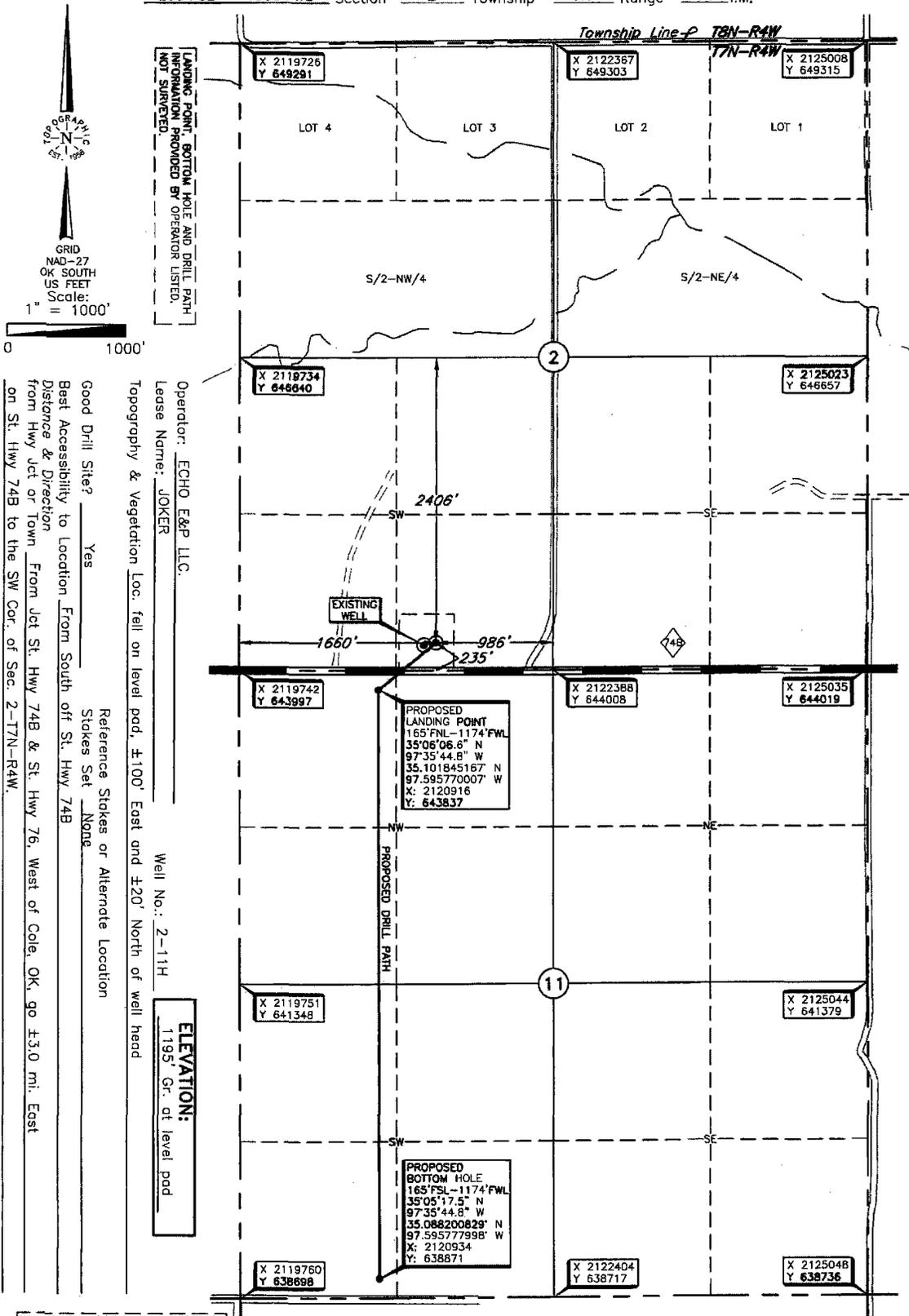
**TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA**

13800 WIRELESS WAY, OKLA. CITY, OKLA. 73134 \* LOCAL (405) 843-4847 \* OUT OF STATE (800) 654-3219  
 Certificate of Authorization No. 1293 LS

McCLAIN

County, Oklahoma

235'FSL - 1660'FWL Section 2 Township 7N Range 4W I.M.



LANDING POINT, BOTTOM HOLE AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED. NOT SURVEYED.

Operator: ECHO EXP LLC.  
 Lease Name: JOKER

Well No.: 2-11H

ELEVATION:  
 1195' Gr. at level pod

Topography & Vegetation Loc. fell on level pod, ±100' East and ±20' North of well head

Reference Stakes or Alternate Location  
 Stakes Set None

Good Drill Site? Yes

Best Accessibility to Location From South of St. Hwy 74B  
 Distance & Direction From Hwy Jct or Town From Jct St. Hwy 74B & St. Hwy 76, West of Cole, OK, go ±3.0 mi. East on St. Hwy 74B to the SW Cor. of Sec. 2-7N-R4W.

THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY

DATUM: NAD-27  
 LAT: 35°06'10.6" N  
 LONG: 97°35'38.9" W  
 LAT: 35.102944474' N  
 LONG: 97.594144540' W  
 STATE PLANE  
 COORDINATES (US FEET):  
 ZONE: OK SOUTH  
 X: 2121401  
 Y: 644239

Date of Drawing: Mar. 12, 2019  
 Project # 124774 Date Staked: Mar. 08, 2019 AC

**CERTIFICATE:**

I, Thomas L. Howell, an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein.

*Thomas L. Howell*  
 Oklahoma Lic. No. 1433

