

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

API NUMBER: 087 22187

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

Horizontal Hole Oil & Gas

PERMIT TO DRILL

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

County: MCCLAIN

SPOT LOCATION:  SW  SW  SE  SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 215 1560

Lease Name: JOKER

Well No: 1-11H

Well will be 215 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:

Pending CD Numbers:

Special Orders:

Total Depth: 15246

Ground Elevation: 1196

**Surface Casing: 1500**

Depth to base of Treatable Water-Bearing FM: 340

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

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

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

PERMIT NO: 18-35503

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: S2 SW SW SW
Feet From: SOUTH 1/4 Section Line: 165
Feet From: WEST 1/4 Section Line: 330
Depth of Deviation: 8991
Radius of Turn: 819
Direction: 183
Total Length: 4969
Measured Total Depth: 15246
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 MEMO with detailed descriptions of well operations and requirements.

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Category

Description

SPACING - 678750

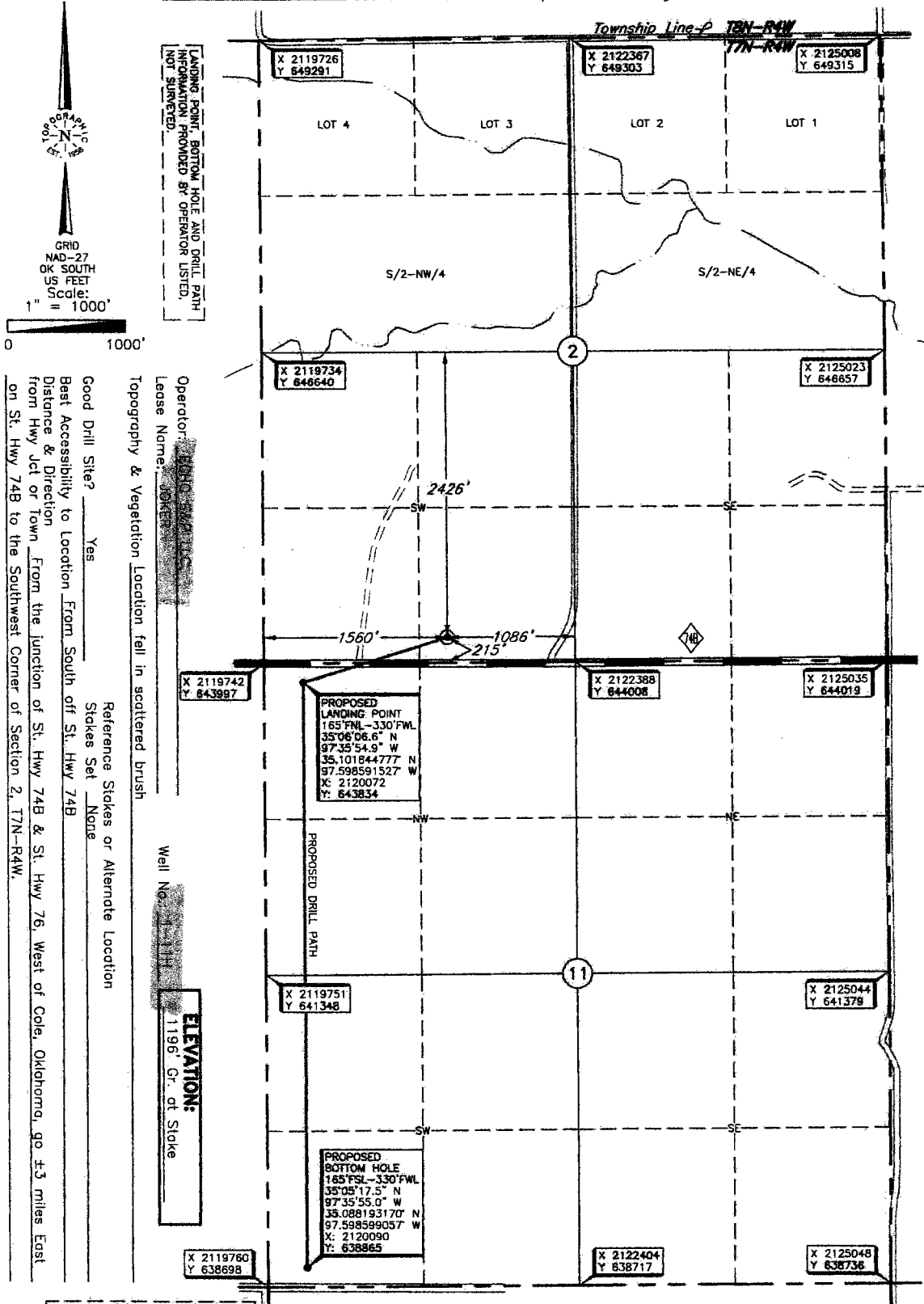
10/19/2018 - G56 - (640)(HOR) 11-7N-4W  
VAC. 148062 MSRH  
EST. OTHER  
EXT. 664084 WDFD, OTHER  
POE TO BHL NLT 165' FNL/FSL, NLT 330' FEL/FWL  
(COEXIST WITH NON HOR. SP. UNITS)

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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.

**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  
 215' FSL - 1560' FWL Section 2 Township 7N Range 4W I.M.



Operator: MINOR OIL & GAS  
 Lease Name: OKER  
 Topography & Vegetation Location fall in scattered brush  
 Reference Stakes or Alternate Location  
 Stakes Set None  
 Good Drill Site? Yes  
 Best Accessibility to Location From South off St. Hwy 74B  
 Distance & Direction From Hwy Jct or Town From the Junction of St. Hwy 74B & St. Hwy 76, West of Cole, Oklahoma, go ±3 miles East on St. Hwy 74B to the Southwest Corner of Section 2, 7N-R4W.

THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY.

DATUM: NAD-27  
 LAT: 35°06'10.4" N  
 LONG: 97°35'40.1" W  
 LAT: 35.102889293° N  
 LONG: 97.594478909° W  
 STATE PLANE  
 COORDINATES (US FEET):  
 ZONE: OK SOUTH  
 X: 2121301  
 Y: 644219

Date of Drawing: Sept. 24, 2018  
 Invoice # 301203 Date Staked: Aug. 28, 2018 NB

**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

