

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

API NUMBER: 019 26317

Approval Date: 03/14/2019

Expiration Date: 09/14/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 22 Twp: 1S Rge: 3W

County: CARTER

SPOT LOCATION: ☐ SE ☐ NE ☐ NW ☐ NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 358 1295

Lease Name: AUGUSTUS

Well No: 6-22-27XH

Well will be 165 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

JAMES LEWIS  
7887 FROMAN ROAD  
WYNNEWOOD OK 73098

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

	Name	Depth	Name	Depth
1	CANEY	7650	6	
2	SYCAMORE	8100	7	
3	WOODFORD	8600	8	
4			9	
5			10	

Spacing Orders: 597921

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201802035  
201802037  
201806047  
201802034

Special Orders:

Total Depth: 19226

Ground Elevation: 995

Surface Casing: 1430

Depth to base of Treatable Water-Bearing FM: 1380

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: GARBER

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-35409  
H. PIT 2 - MIN. 20-MIL PIT LINER REQUIRED, OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

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: GARBER

HORIZONTAL HOLE 1

Sec 27 Twp 1S Rge 3W County CARTER

Spot Location of End Point: S2 S2 S2 S2

Feet From: SOUTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 2640

Depth of Deviation: 7600

Radius of Turn: 878

Direction: 175

Total Length: 10246

Measured Total Depth: 19226

True Vertical Depth: 8700

End Point Location from Lease,  
Unit, or Property Line: 165

Notes:

Category

Description

HYDRAULIC FRACTURING

9/17/2018 - G71 - OCC 165:10-3-10 REQUIRES:

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;

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: [OCCEWEB.COM/OG/OGFORMS.HTML](http://OCCEWEB.COM/OG/OGFORMS.HTML); AND,

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](http://FRACFOCUS.ORG)

PENDING CD - 201802035

10/15/2018 - G58 - (I.O.) 22 & 27-1S-3W  
EST MULTIUNIT HORIZONTAL WELL  
X689806 CNEY, SCMR, WDFD 27-1S-3W  
X690446 CNEY 22-1S-3W  
X597921 SCMR, WDFD 22-1S-3W  
50% 22-1S-3W  
50% 27-1S-3W  
NO OP. NAMED  
REC 12/18/2018 (M. NORRIS)

This permit does not address the right of entry or settlement of surface damages.

019 26317 AUGUSTUS 6-22-27XH

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
PENDING CD - 201802037	10/15/2018 - G58 - (I.O.) 22 & 27-1S-3W X689806 CNEY, SCMR, WDFD 27-1S-3W X690446 CNEY 22-1S-3W X597921 SCMR, WDFD 22-1S-3W COMPL. INT. 22-1S-3W NCT 165' FNL, NCT 0' FSL, NCT 330' FWL COMPL. INT. 27-1S-3W NCT 0' FNL, NCT 165' FSL, NCT 330' FWL NO OP. NAMED REC 12/18/2018 (M. NORRIS)
SPACING - 597921	10/15/2018 - G58 - (640)(HOR) 22-1S-3W EST SCMR, WDFD, OTHER POE TO BHL (SCMR) NLT 660' FB POE TO BHL (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL
SPACING - 689806	3/14/2019 - G58 - (640)(HOR) 27-1S-3W VAC 344237 SCMR, WDFD VAC 346554 SCMR, WDFD EXT 597921 SCMR, WDFD EST CNEY POE TO BHL (SCMR, CNEY) NLT 660' FB POE TO BHL (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL
SPACING - 690446	3/14/2019 - G58 - (640)(HOR) 22-1S-3W EST CNEY POE TO BHL NLT 330' FB

# 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

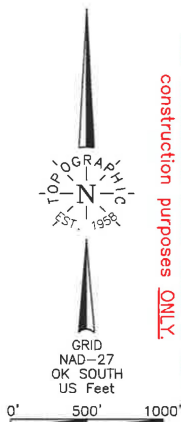
019-26317

CARTER

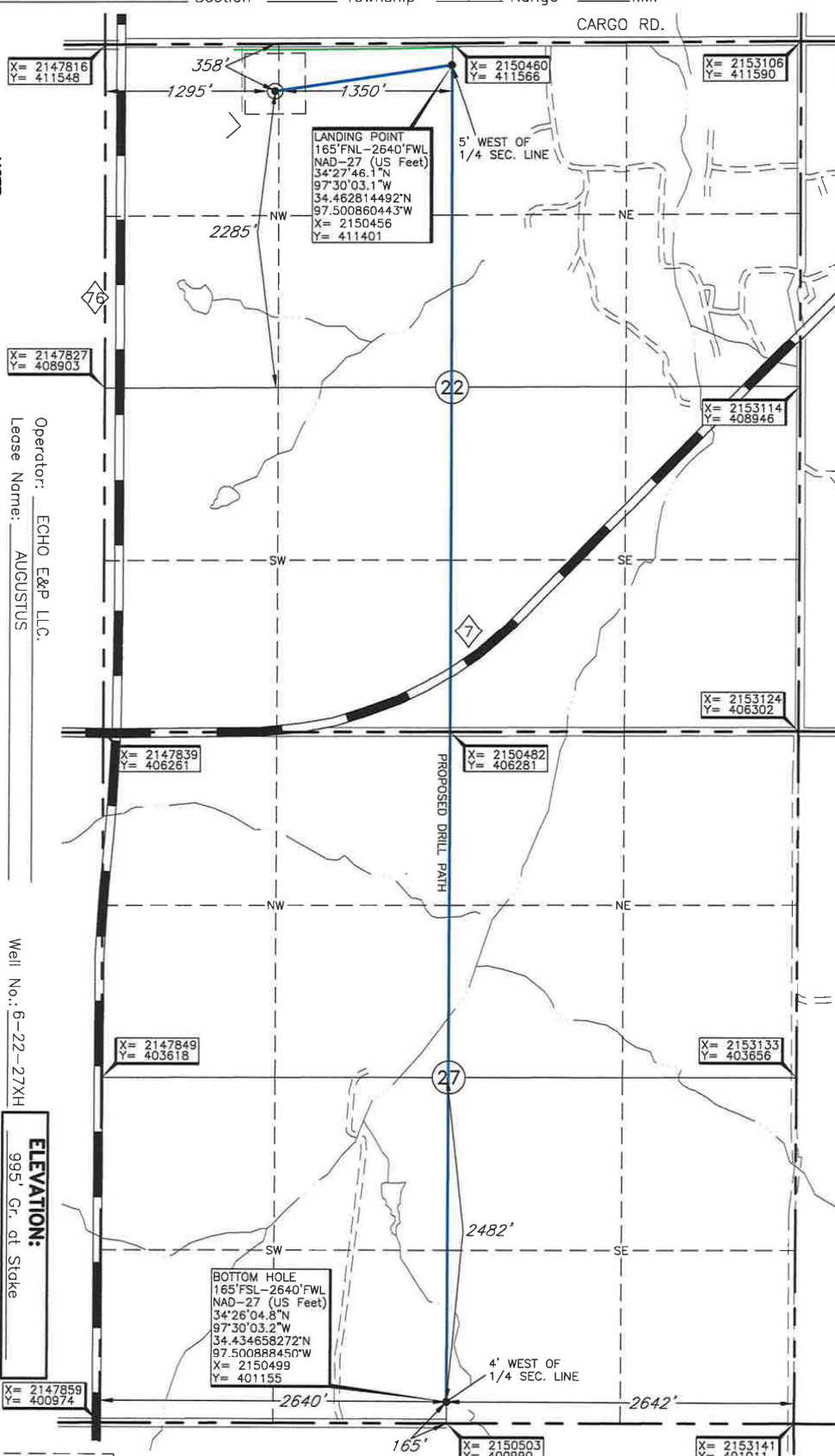
County, Oklahoma

358'FNL-1295'FWL Section 22 Township 1S Range 3W I.M.

CARGO RD.



**NOTE:**  
The information shown herein is for construction purposes ONLY.



Operator: ECHO E&P LLC.  
Lease Name: AUGUSTUS  
Topography & Vegetation: Loc. fell in terraced pasture with trees  
Well No.: 6-22-27XH  
ELEVATION: 995' Gr. at Stake  
Good Drill Site? Yes  
Reference Stakes or Alternate Location: Stakes Set None  
Best Accessibility to Location: From North off county road  
Distance & Direction: From the junction of St. Hwy. 7 and St. Hwy. 76 in Radliff City, OK, go North on St. Hwy. 76 for ±1 mile to the NW Cor. of Sec. 22- T1S-R3W.

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

DATUM: NAD-27  
LAT: 34°27'44.2"N  
LONG: 97°30'19.2"W  
LAT: 34.462275193°N  
LONG: 97.505324550°W  
STATE PLANE  
COORDINATES: (US Feet)  
ZONE: OK SOUTH  
X: 2149112  
Y: 411199

Revision ☒ A Date of Drawing: Sept. 12, 2018  
Invoice # 302651 Date Staked: July 31, 2018

## 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

