

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

API NUMBER: 051 24581

Approval Date: 02/26/2019
Expiration Date: 08/26/2020

Horizontal Hole Oil & Gas
Multi Unit

PERMIT TO DRILL

WELL LOCATION: Sec: 01 Twp: 7N Rge: 5W County: GRADY
SPOT LOCATION: NW NW NW NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 300 2345

Lease Name: JESSICA Well No: 5-1-12XH Well will be 300 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

WILLIAM T HOLLIE
PO BOX 893
NEWCASTLE OK 73065

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	10257	6	
2	WOODFORD	10472	7	
3	MISENER-HUNTON	10650	8	
4			9	
5			10	

Spacing Orders: 678842

Location Exception Orders:

Increased Density Orders: 687339
686141

Pending CD Numbers: 201900585
201900587

Special Orders:

Total Depth: 20902

Ground Elevation: 1289

Surface Casing: 560

Depth to base of Treatable Water-Bearing FM: 470

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? Y

Wellhead Protection Area? Y

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: DUNCAN

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 19-36108

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: CLOSED Closed System Means Steel Pits

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? Y

Wellhead Protection Area? Y

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: DUNCAN

HORIZONTAL HOLE 1

Sec 12 Twp 7N Rge 5W County GRADY

Spot Location of End Point: SW SW SE SE

Feet From: SOUTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 1254

Depth of Deviation: 10250

Radius of Turn: 477

Direction: 175

Total Length: 9902

Measured Total Depth: 20902

True Vertical Depth: 11190

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

Notes:

Category

Description

HYDRAULIC FRACTURING

2/4/2019 - 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; 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

INCREASED DENSITY - 686141

2/22/2019 - GB1 - 1-7N-5W
X678842 MSSP, WDFD
2 WELLS
ECHO E&P, LLC
11/6/2018

INCREASED DENSITY - 687339

2/22/2019 - GB1 - 12-7N-5W
X678842 MSSP, WDFD
2 WELLS
ECHO E&P, LLC
11/29/2018

MEMO

2/4/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

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.

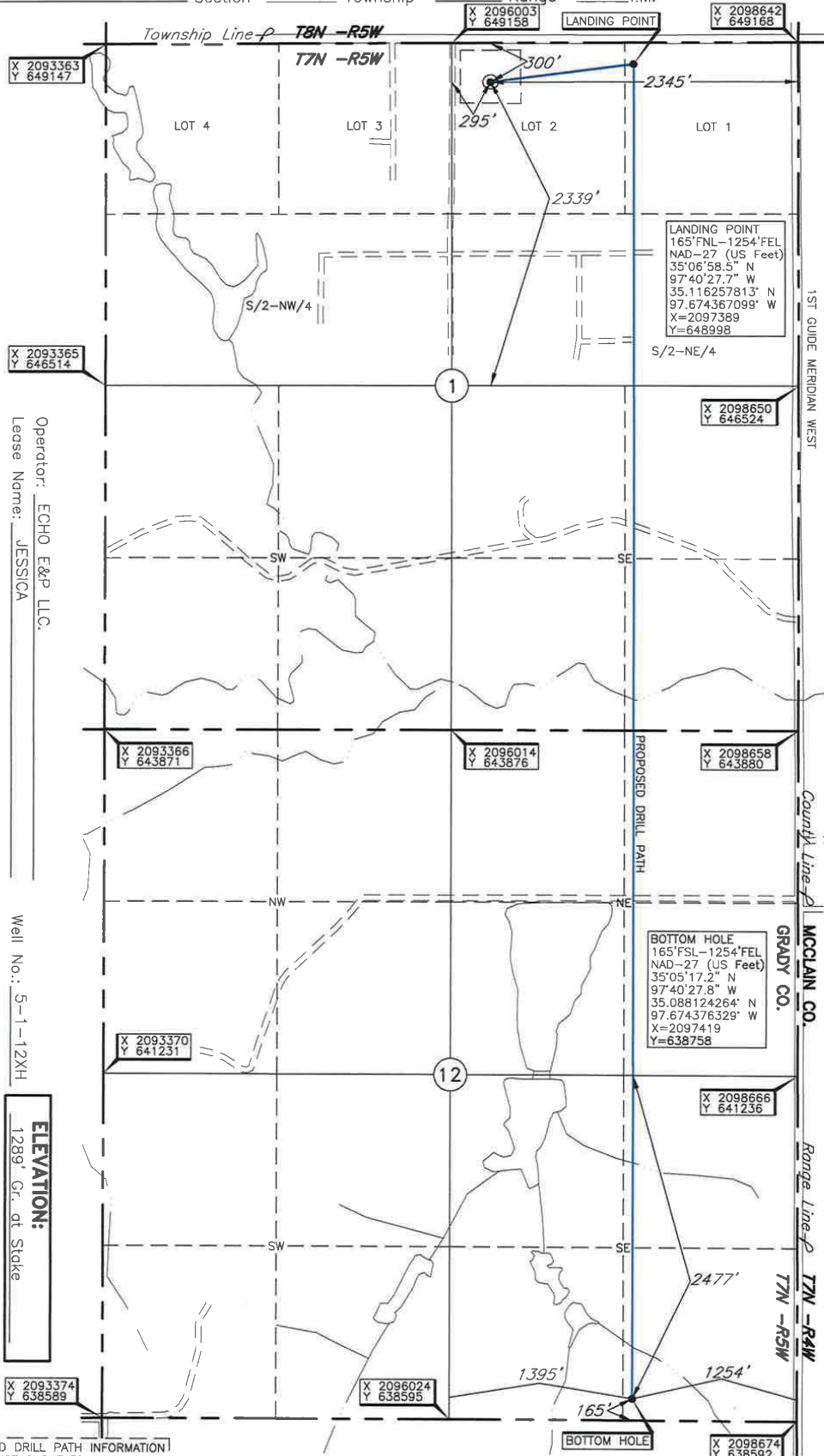
Category	Description
PENDING CD - 201900585	2/22/2019 - GB1 - (E.O.) 1 & 12-7N-5W EST MULTIUNIT HORIZONTAL WELL X678842 MSSP, WDFD, MSRH (MSSP, MSRH ASSOCIATED COMMON SOURCES OF SUPPLY TO WDFD) 50% 1-7N-5W 50% 12-7N-5W ECHO E&P, LLC REC. 2/22/2019 (JACKSON)
PENDING CD - 201900587	2/22/2019 - GB1 - (E.O.) 1 & 12-7N-5W X678842 MSSP, WDFD, MSRH COMPL. INT. (1-7N-5W) NCT 0' FSL, NCT 165' FNL, NCT 900' FEL COMPL. INT. (12-7N-5W) NCT 165' FSL, NCT 0' FNL, NCT 900' FEL NO OP. NAMED REC. 2/22/2019 (JACKSON)
PUBLIC WATER SUPPLY WELL	2/4/2019 - G71 - ACES SPORTS BAR - 1 PWS/WPA, NE/4 36-8N-5W
SPACING - 678842	2/22/2019 - GB1 - (640)(HOR) 1 & 12-7N-5W VAC 98014 MSRH EXT 598370/601838 MSSP, WDFD, MSRH COMPL. INT. (MSSP, MSRH) NLT 660' FB COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL

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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.

County, Oklahoma
 300' FNL - 2345' FEL Section 1 Township 7N Range 5W I.M.



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



Operator: ECHO E&P LLC.
 Lease Name: JESSICA
 Topography & Vegetation: Loc. tall in grass field
 Well No.: 5-1-12XH
 ELEVATION: 1289' Gr. at Stake

Good Drill Site? Yes No
 Reference Stakes or Alternate Location: Stakes Set None

Best Accessibility to Location: From North off county road
 Distance & Direction from Hwy Jet or Town: From Jct. St. Hwy. 76 South and US Hwy. 277/US Hwy. 62 NE-SW, SW of Blanchard, OK, go ±0.6 mi. South on county road, then ±0.5 mi. West to the N/4 Cor. of Sec. 1-T7N-R5W.

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

Date of Drawing: Nov. 30, 2018
 Invoice # 306894A Date Staked: Nov. 14, 2018 AC

DATUM: NAD-27
 LAT: 35°06'57.2"N
 LONG: 97°40'40.9"W
 STATE PLANE
 COORDINATES: (US Feet)
 ZONE: OK SOUTH
 X: 2096299
 Y: 648859

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

