

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

API NUMBER: 051 24553

Approval Date: 01/18/2019

Expiration Date: 07/18/2020

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 WEST
SECTION LINES: 300 2325

Lease Name: JESSICA Well No: 6-1-12XH Well will be 300 feet from nearest unit or lease boundary.
Operator ECHO E & P LLC Telephone: 4057534232 OTC/OCC Number: 23925 0
Name:

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:

Pending CD Numbers: 201900261
201900260

Special Orders:

Total Depth: 21016

Ground Elevation: 1289

Surface Casing: 520

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: 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? Y

Wellhead Protection Area? Y

Pit is located in a Hydrologically Sensitive Area.

Category of Pit: 1A

Liner required for Category: 1A

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: ON SITE
Type of Mud System: OIL 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: 3
Liner required for Category: 3
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: S2 SE SE SE
Feet From: SOUTH 1/4 Section Line: 165
Feet From: EAST 1/4 Section Line: 330
Depth of Deviation: 10023
Radius of Turn: 477
Direction: 175
Total Length: 10244
Measured Total Depth: 21016
True Vertical Depth: 10650
End Point Location from Lease,
Unit, or Property Line: 165

Notes:

Table with 2 columns: Category, Description. Contains notes on hydraulic fracturing requirements and pending CD details.

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Category	Description
PENDING CD - 201900261	1/18/2019 - G58 - (E.O.) 1 & 12-7N-5W EST MULTIUNIT HORIZONTAL WELL X678842 MSSP, WDFD, MSRH (MSSP & MSRH ARE ADJACENT CSS TO WDFD) 50% 1-7N-5W 50% 12-7N-5W NO OP. NAMED REC 1/18/2019 (JACKSON)
PUBLIC WATER SUPPLY WELL	1/16/2019 - G71 - ACES SPORTS BAR - 1 PWS/WPA, NE/4 36-8N-5W
SPACING - 678842	1/18/2019 - G58 - (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

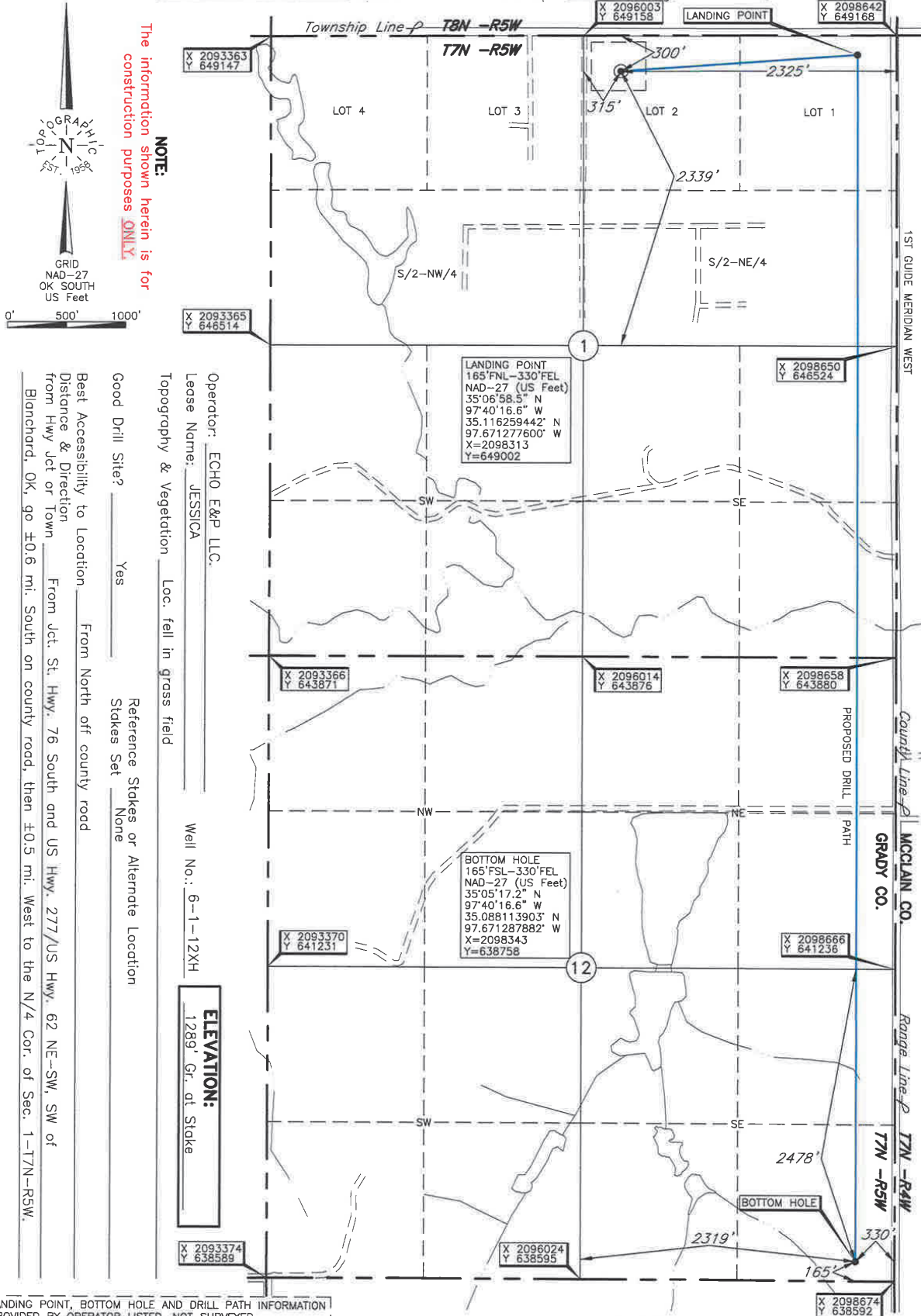
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Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District
Office of the Conservation Division as to when Surface Casing will be run.

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
 GRADY

051-24553

300'FNL - 2325'FEL Section 1 Township 7N Range 5W I.M. County, Oklahoma



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



Operator: ECHO E&P LLC.
 Lease Name: JESSICA
 Topography & Vegetation: Loc. fall in grass field
 Well No.: 6-1-12XH
 ELEVATION: 1289' 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 Hwy Jct 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 # 306894B

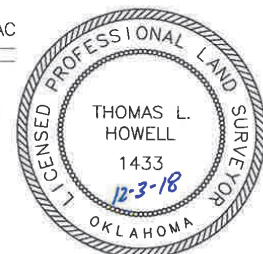
Date Staked: Nov. 14, 2018

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



This information was gathered with a GPS receiver accurate to within 1 ft.

DATUM: NAD-27
 LAT: 35°06'57.2"N
 LONG: 97°40'40.6"W
 LAT: 35.115884767°N
 LONG: 97.677947646°W
 STATE PLANE COORDINATES: (US Feet)
 ZONE: OK SOUTH
 X: 2096318
 Y: 648859