

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

API NUMBER: 051 24311

Approval Date: 03/29/2018

Expiration Date: 09/29/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 24 Twp: 7N Rge: 7W

County: GRADY

SPOT LOCATION: ☐ NW ☐ NW ☐ NW ☐ NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 306 2462

Lease Name: KASHMIR

Well No: 3-13H

Well will be 306 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 840
OKLAHOMA CITY, OK 73112-1400

NATHAN S COE REVOCABLE TRUST
408 WEST COUNTRY CLUB ROAD
CHICKASHA OK 73018

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	12900	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 671190

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201801526
201801525

Special Orders:

Total Depth: 19500

Ground Elevation: 1141

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 530

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

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? N

Wellhead Protection Area? N

Pit is not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: CHICKASHA

D. One time land application -- (REQUIRES PERMIT)
H. SEE MEMO

PERMIT NO: 18-34073

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? N

Wellhead Protection Area? N

Pit is not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: CHICKASHA

HORIZONTAL HOLE 1

Sec 13 Twp 7N Rge 7W County GRADY

Spot Location of End Point: NE NW NW NE

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 2063

Depth of Deviation: 12644

Radius of Turn: 900

Direction: 4

Total Length: 5442

Measured Total Depth: 19500

True Vertical Depth: 13975

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

Notes:

Category

Description

DEEP SURFACE CASING

3/7/2018 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

3/7/2018 - 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; 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

MEMO

3/7/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201801525

3/23/2018 - G56 - (I.O.) 13-7N-7W
X671190 MSSP
1 WELL
ECHO E & P, LLC
REC. 3/26/18 (P. PORTER)

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.

051 24311 KASHMIR 3-13H

Category	Description
PENDING CD - 201801526	3/23/2018 - G56 - (I.O.) 13-7N-7W X671190 MSSP COMPL. INT. NCT 165' FNL, NCT 165' FSL, NCT 330' FEL ECHO E & P, LLC REC. 3/26/18 (P. PORTER)
PENDING CD - 201802473	3/28/2018 - G56 - 13-7N-7W X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' FROM THE KASHMIR 1-13H WELL NO OP. NAMED HEARING 4/23/18
SPACING - 671190	3/23/2018 - G56 - (640) (HOR) 13-7N-7W EST. MSSP, OTHERS COMPL. INT. (MSSP) NLT 660' 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

GRADY

County, Oklahoma

306' FNL - 2462' FEL Section 24 Township 7N Range 7W I.M.

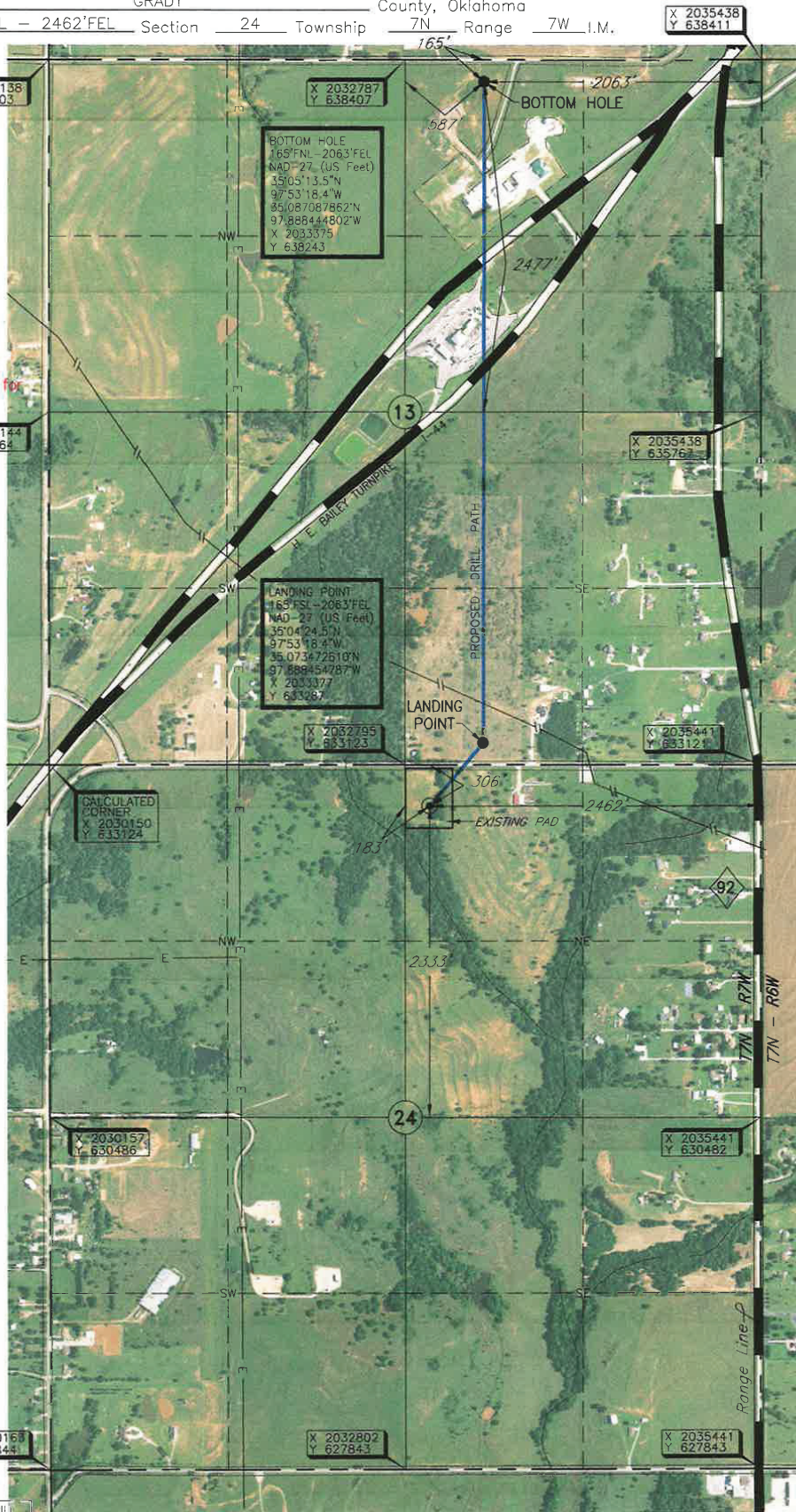


NOTE:

The information shown herein is for construction purposes ONLY.

Operator: ECHO E&P LLC.
 Lease Name: KASHMIR
 Topography & Vegetation: Location fell on level pad with drilling rig.
 Good Drill Site? Yes
 Reference Stakes or Alternate Location: Stakes Set None
 Best Accessibility to Location: From North off county road
 Distance & Direction: From Jct. U.S. Hwy. 277 and St. Hwy. 92, East of Chickasha, OK, go ± 2.0 mi. North on St. Hwy. 92 to the NE Corner of Section 24, T7N - R7W.

Well No.: 3-13H

ELEVATION:
1141' Gr. at Level Pad

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

DATUM: NAD-27
 LAT: 35°04'19.9"N
 LONG: 97°53'23.2"W
 LAT: 35°07'21.80604"N
 LONG: 97°58'27.89551"W
 STATE PLANE
 COORDINATES: (US Feet)
 ZONE: OK SOUTH
 X: 2032978
 Y: 632816

Revision ☒ A

Date of Drawing: March 2, 2018

Invoice # 289633

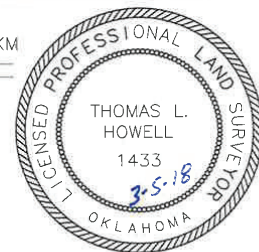
Date Staked: February 23, 2018

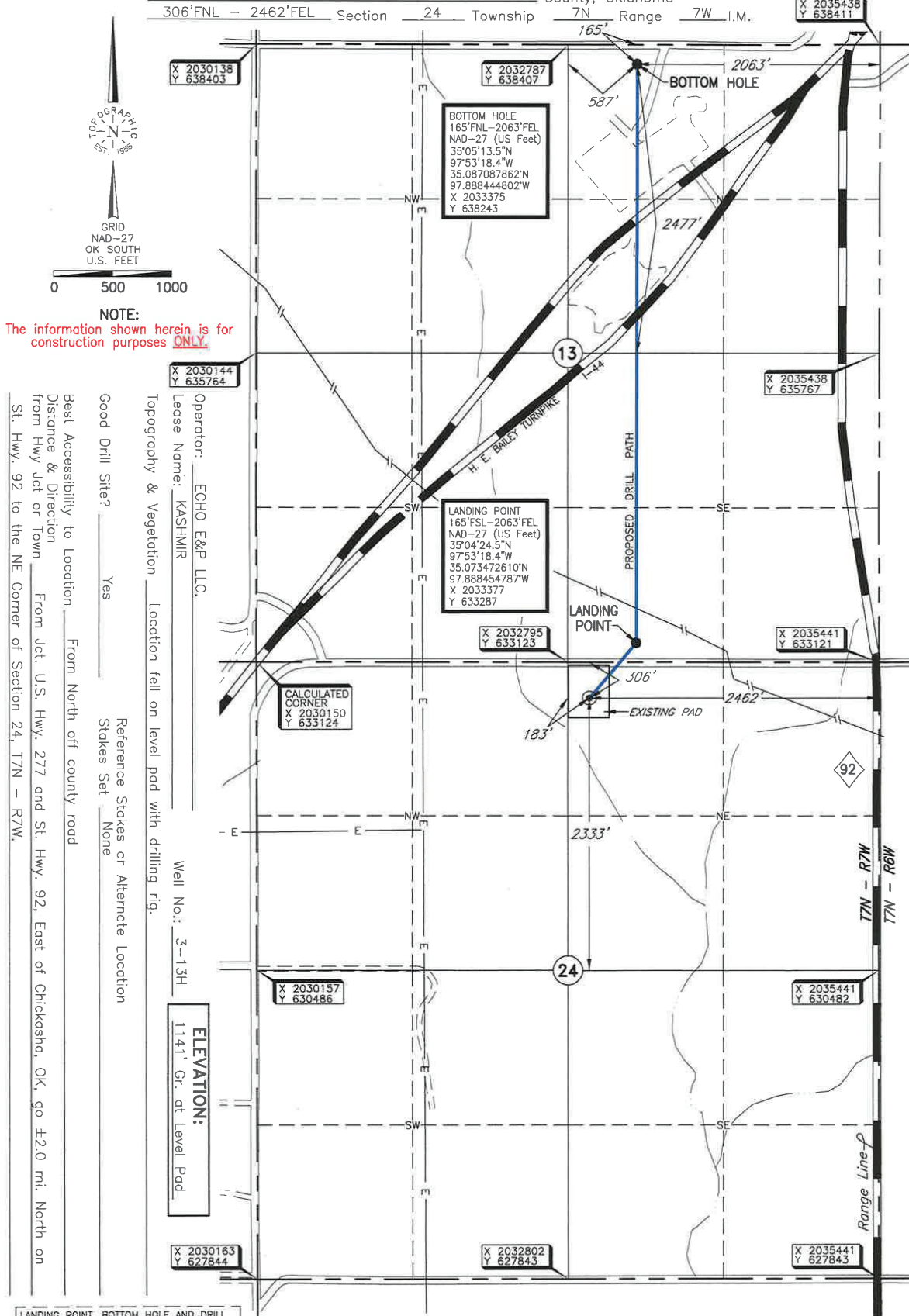
RKM

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





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