API NUMBER: 011 23975

Oil & Gas

Horizontal Hole

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

Approval Date: 03/28/2018
Expiration Date: 09/28/2018

PERMIT TO DRILL

WELL LOCATION: Sec: 31 Twp: 15N Rge: 13W County: BLAINE

SPOT LOCATION: SW SE SW FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 185 1370

Lease Name: BOXER Well No: 1-31-30XH Well will be 185 feet from nearest unit or lease boundary.

 Operator
 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

SCOTT PERKINS FARMS LLC 24319 FAST 890 ROAD

THOMAS OK 73609

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

Depth Name Depth MISSISSIPPIAN (EX CHESTER) 1 13300 6 2 7 3 8 4 9 5 10 669255 Spacing Orders: Location Exception Orders: 671491 Increased Density Orders: 669055 673422

Pending CD Numbers: Special Orders:

Total Depth: 23425 Ground Elevation: 1635 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 40

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

located in a Hydrologically Sensitive Area.

Chlorides Max: 8000 Average: 5000 Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well?

Wellhead Protection Area? N

Category of Pit: C

Liner not required for Category: CPit Location is BED AQUIFER

Pit Location Formation: RUSH SPRINGS

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

H. SEE MEMO

PERMIT NO: 18-34148

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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C
Pit Location is BED AQUIFER

Pit Location Formation: RUSH SPRINGS

HORIZONTAL HOLE 1

Sec 30 Twp 15N Rge 13W County **BLAINE** NW Spot Location of End Point: ΝE NW NW Feet From: NORTH 1/4 Section Line: 165 Feet From: WEST 1/4 Section Line: 500

Depth of Deviation: 12373
Radius of Turn: 477
Direction: 355

Total Length: 10303

Measured Total Depth: 23425

True Vertical Depth: 13300

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

Notes:

Category Description

DEEP SURFACE CASING 3/20/2018 - 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 3/20/2018 - 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

INTERMEDIATE CASING 3/20/2018 - G71 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-

PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE

MORROW SERIES

LOCATION EXCEPTION - 671491 3/28/2018 - G58 - (I.O.) 30 & 31-15N-13W

X669055 MSSP (31-15N-13W) X669255 MSSP (30-15N-13W)

COMPL. INT. (30-15N-13W) NCT 165' FNL, NCT 0' FSL, NCT 330' FWL COMPL. INT. (31-15N-13W) NCT 0' FNL, NCT 165' FSL, NCT 330' FWL

ECHO E & P, LLC 12/28/2017

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.

011 23975 BOXER 1-31-30XH

Category Description

MEMO 3/20/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 -

OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

SPACING - 669055 3/28/2018 - G58 - (640)(HOR) 31-15N-13W

VAC 119495 MCSTR EST MSSP, OTHERS COMPL. INT. NLT 660' FB

SPACING - 669255 3/28/2018 - G58 - (640)(HOR) 30-15N-13W

VAC 119495 MCSTR

EST OTHER

EXT 661326 MSSP, OTHER COMPL. INT. NLT 660' FB

SPACING - 673422 3/28/2018 - G58 - (I.O.) 30 & 31-15N-13W

EST MULTIUNIT HORÍZONTAL WELL X669055 MSSP (31-15N-13W) X669255 MSSP (30-15N-13W)

50% 31-15N-13W 50% 30-15N-13W ECHO E & P, LLC

2/9/2018

