API NUMBER: 051 24644

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

Approval Date: 05/24/2019
Expiration Date: 11/24/2020

Horizontal Hole Multi Unit Oil & Gas

PERMIT TO DRILL

		SECTION LINES:		810	
Lease Name: JESSICA		Well No:	3-1-12XH	Well will b	be 302 feet from nearest unit or lease boundary
Operator ECHO E Name:	& P LLC		Telephone: 405	7534232	OTC/OCC Number: 23925 0
ECHO E & P LLC				KODOVILLO	
3817 NW EXPRES	SWAY STE 810			KOPCAT LLC	
OKLAHOMA CITY,		73112-1470		8177 SKYLINE DRIVE	
,				BLANCHARD	OK 73010
Name 1 MISSISSIPP		Depth 10260	6	Name	Depth
Name 1 MISSISSIPP 2 WOODFORE 3 MISENER-H	IAN D	Depth	7 8 9	Name	Depth
Name 1 MISSISSIPP 2 WOODFORE 3 MISENER-H	IAN D	Depth 10260 10475	7 8 9 10	Name	Depth Increased Density Orders:
Name 1 MISSISSIPP 2 WOODFORE 3 MISENER-H 4 5 acing Orders: 678842 693832	IAN D	Depth 10260 10475 10650	7 8 9 10	Name	
Name 1 MISSISSIPP 2 WOODFORE 3 MISENER-H 4 5 eacing Orders: 678842 693832 ending CD Numbers: 201	IAN D UNTON	Depth 10260 10475 10650	7 8 9 10	Name	Increased Density Orders:
Name 1 MISSISSIPP 2 WOODFORE 3 MISENER-H 4 5 eacing Orders: 678842 693832 ending CD Numbers: 201 201	IAN D UNTON 901775	Depth 10260 10475 10650	7 8 9 10	Name	Increased Density Orders:

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: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 5000 Average: 3000

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: DUNCAN

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 19-36463

H. SEE MEMO

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?

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** SW Spot Location of End Point: SW SF SF Feet From: SOUTH 1/4 Section Line: 165 Feet From: WEST 1/4 Section Line: 2178

Depth of Deviation: 10083 Radius of Turn: 396 Direction: 170

Total Length: 10312

Measured Total Depth: 21017 True Vertical Depth: 10705 End Point Location from Lease. Unit, or Property Line: 165

Notes:

MEMO

Category Description

HYDRAULIC FRACTURING 4/30/2019 - 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

4/30/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 -

OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201901771 5/24/2019 - GB1 - (E.O.) 1-7N-5W

X678842/201900258 MSSP, WDFD

3 WELLS NO OP. NAMED

REC. 5/24/2019 (MINMIER)

PENDING CD - 201901772 5/24/2019 - GB1 - (E.O.) 12-7N-5W

X678842/201900258 MSSP, WDFD

3 WELLS NO OP. NAMED

REC. 5/24/2019 (MINMIER)

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.

051 24644 JESSICA 3-1-12XH

Category Description

PENDING CD - 201901774 5/24/2019 - GB1 - (E.O.) 1 & 12-7N-5W

X678842/201900258 MSSP, WDFD, MSRH

COMPL. INT. (1-7N-5W) NCT 165' FNL, NCT 0' FSL, NCT 1800' FWL COMPL. INT. (12-7N-5W) NCT 0' FNL, NCT 165' FSL, NCT 1800' FWL

NO OP. NAMÈD

REC. 5/24/2019 (MINMIER)

PENDING CD - 201901775 5/24/2019 - GB1 - (E.O.) 1 & 12-7N-5W

EST MULTIUNIT HORIZONTAL WELL X678842/201900258 MSSP, WDFD, MSRH

(MSSP, MSRH ADJACENT COMMON SOURCES OF SUPPLY TO WDFD)

50% 1-7N-5W 50% 12-7N-5W ECHO E&P, LLC

REC. 5/24/2019 (MINMIER)

SPACING - 678842 5/24/2019 - 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

SPACING - 693832 5/24/2019 - GB1 - (E.O.)(640)(HOR) 1 & 12-7N-5W

CONFIRM SP # 678842 FOR RESPONDENTS

4/1/2019

