API NUMBER: 051 24342 A

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

Approval Date: 05/02/2018
Expiration Date: 11/02/2018

340 feet from nearest unit or lease boundary.

23925 0

OTC/OCC Number:

Horizontal Hole Oil & Gas

Amend reason: OCC CORRECTION

AMEND PERMIT TO DRILL

WELL LOCATION	: Sec:	20	Twp:	5N	Rge:	6W	County	: GRA	DY			
SPOT LOCATION	: NE	SE	SI		SW		FEET FROM QUARTER:	FROM	SOUTH	FROM	WEST	
							SECTION LINES:		340		2375	
Lease Name:	VENUS						W	ell No:	3-20H			
Operator ECHO E & P LLC Name:							Teleph	none:	4057534232			

ECHO E & P LLC 3817 NW EXPRESSWAY STE 840

OKLAHOMA CITY, OK 73112-1400

J E DEVELOPMENT CORPORATION PO BOX 865

Well will be

CHICKASHA OK 73023

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

	Name	Depth	Name	Depth
1	WOODFORD	15218 6		
2		7		
3		8		
4		9		
5		10		
Spacing Orders:	676418	Location Exception Orders:		Increased Density Orders:

Pending CD Numbers: 201800644 Special Orders:

Total Depth: 19900 Ground Elevation: 1171 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 350

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

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

PERMIT NO: 18-34164

H. SEE MEMO

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? N

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: DOG CREEK

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: DOG CREEK

HORIZONTAL HOLE 1

Rge 6W Sec. 20. Twp 5N County **GRADY** NW Spot Location of End Point: N2 NW ΝE Feet From: NORTH 1/4 Section Line: 165 EAST Feet From: 1/4 Section Line: 990

Depth of Deviation: 14695
Radius of Turn: 573
Direction: 176
Total Length: 4520

Measured Total Depth: 20715

True Vertical Depth: 15268

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

Notes:

MEMO

Category Description

COMPLETION INTERVAL 5/1/2018 - G60 - WILL BE LEGAL 165' FNL/FSL AND NCT 330' FEL/FWL PER OPERATOR

DEEP SURFACE CASING 3/29/2018 - 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 3/29/2018 - 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

3/29/2018 - 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. 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.

Description Category

4/19/2018 - G56 - 20-5N-6W X676418 WDFD PENDING CD - 201800644

1 WELL

NO OP NAMED REC 2/12/18 (P. PORTER)

4/19/2018 - G56 - (640) (HOR) 20-5N-6W EST WDFD, OTHERS **SPACING - 676418**

POE TO BHL NLT 165' FNL/FSL, NLT 330' FEL/FWL