API NUMBER: 119 24300 Α **OKLAHOMA CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION** P.O. BOX 52000 **OKLAHOMA CITY, OK 73152-2000** (Rule 165:10-3-1)

Approval Date: 10/30/2014 04/30/2015 Expiration Date:

23358 0

Horizontal Hole Oil & Gas

Amend reason: SURFACE OWNER CHANGE

AMEND PERMIT TO DRILL

WELL LOCATION	Sec:	33 7	Twp:	19N	Rge:	3E	County	y: PAY	NE			
SPOT LOCATION	: NE	NW	NE		NE		FEET FROM QUARTER:	FROM	NORTH	FROM	EAST	
							SECTION LINES:		275		795	
Lease Name:	FRIEDEMA	ANN W	/EST 28	8-21- ⁻	19N-3E	Ξ	W	ell No:	2WH			
Operator Name:	AMERI	CAN E	:NERG	Y-WC	ODFO	RD	LLC		Teleph	ione:	4056085574; 405	54188

AMERICAN ENERGY-WOODFORD LLC

PO BOX 18756

OKLAHOMA CITY. OK 73154-0756 ADOLPH & FLORENCE FRIEDEMANN, CO-TRUSTEES ROUTE 4, BOX 9

Well will be 275 feet from nearest unit or lease boundary.

OTC/OCC Number:

ADOLPH T. & FLORENCE FRIEDEMANN TRUST **STILLWATER** OK 74074

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

	Name	Depth	Name	Depth		
1	WOODFORD	4170	6			
2			7			
3			8			
4			9			
5			10			
Spacing Orders:	616533	Location Exception Orders:		Increased Density Orders:		
	619448	·				
Pending CD Num	bers: 201407216			Special Orders:		

201407217 201407218

Total Depth: 16000 Ground Elevation: 869 Surface Casing: 590 Depth to base of Treatable Water-Bearing FM: 340

Fresh Water Supply Well Drilled: No Under Federal Jurisdiction: No Surface Water used to Drill: Yes

PIT 1 INFORMATION

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?

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: OSCAR

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 14-28312 H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

HORIZONTAL HOLE 1

PAYNE Sec 21 Twp 19N Rge 3E County Spot Location of End Point: NW NE NΙ\Λ/ NE Feet From: NORTH 1/4 Section Line: 165 Feet From: EAST 1/4 Section Line: 1950

Depth of Deviation: 3670 Radius of Turn: 1338

Direction: 357
Total Length: 10228

Measured Total Depth: 16000

True Vertical Depth: 4170

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

Notes:

Category Description

PENDING CD - 201407216 10/29/2014 - G91 - (I.O.)(640) 21 & 28-19N-3E

EST MULTIUNIT HORIZONTAL WELL X 616533 WDFD, OTHERS 28-19N-3E X 619448 WDFD, OTHERS 21-19N-3E

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

50% 21-19N-3E 50% 28-19N-3E

AMERICAN ENERGY - WOODFORD, LLC.

REC. 10-21-2014 (N. STUCK)

PENDING CD - 201407217 10/29/2014 - G91 - 21 & 28-19N-3E

X 616533 WDFD 28-19N-3E X 619448 WDFD 21-19N-3E

1 WELL

AMERICAN ENERGY-WOODFORD, LLC.

REC. 10-21-2014 (N. STUCK)

PENDING CD - 201407218 10/29/2014 - G91 - (I.O.) 21 & 28-19N-3E

X 616533 WDFD 28-19N-3E X 619448 WDFD 21-19N-3E

COMPL. INT. (28-19N-3E) NCT 165 FSL, NCT 0 FNL, NCT 1800 FEL COMPL. INT. (21-19N-3E) NCT

0 FSL, NCT 165 FNL, NCT 1800 FEL AMERICAN ENERGY - WODDFORD, LLC.

REC. 10-21-2014 (N. STUCK)

SPACING - 616533 10/29/2014 - G91 - (640)(HOR) 28-19N-3E

VAC 271050 WDFD, OTHERS

VAC 362551/369480 WDFD, OTHERS (N2 SE4 SE4, SW4 SE4 SE4) VAC 362551 WDFD, OTHERS (N2 SE4, SW4 SE4, SE4 SE4 SE4, SW4)

EXT 603961 WDFD, OTHERS POE TO BHL NCT 330' FB

SPACING - 619448 10/29/2014 - G91 - (640)(HOR) 21-19N-3E

VAC 268329 WDFD, OTHERS EXT 612294 WDFD, OTHERS POE TO BHL NCT 330' FB

119-24500



